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June 26, 1995 • #138

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Virtual Radio On The Web

Creating Internet Mailing Lists

MultiMedia & Beyond—

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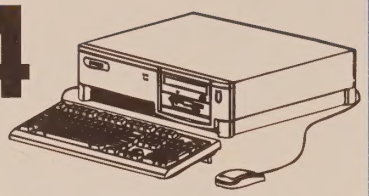

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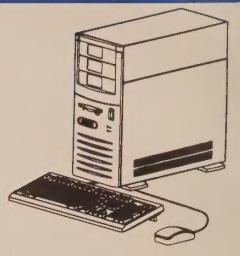

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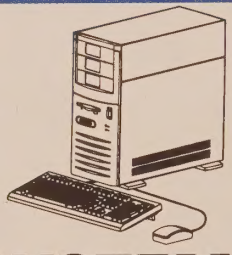

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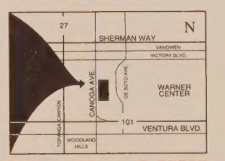

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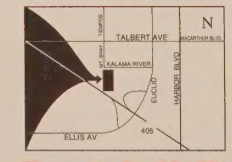

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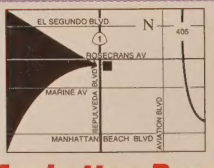

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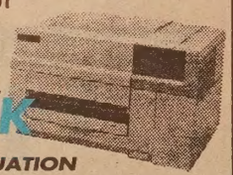

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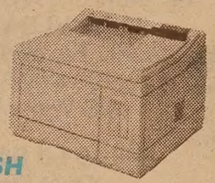

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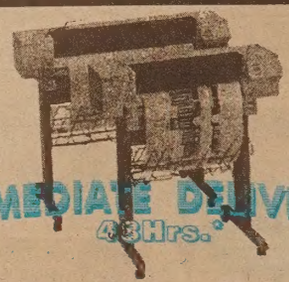

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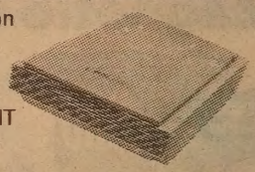

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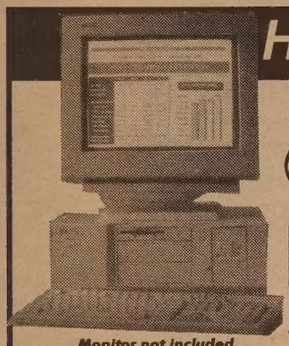

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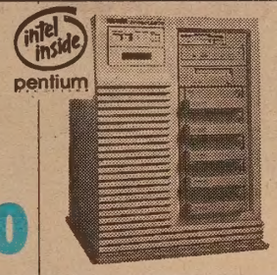

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June 26, 1995 • Issue #138

COVER STORY

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Perspectives For A Changing World • A Return Visit With Alvin Toffler

BY MARY EISENHART

Since our last interview (January 1994), futurists Alvin and Heidi Toffler have published a new book (***Creating a New Civilization***) and become the toast of Washington. Recently we were able to visit with Alvin Toffler, and once again the conversation was varied and interesting. We hope you have as much fun as we did.

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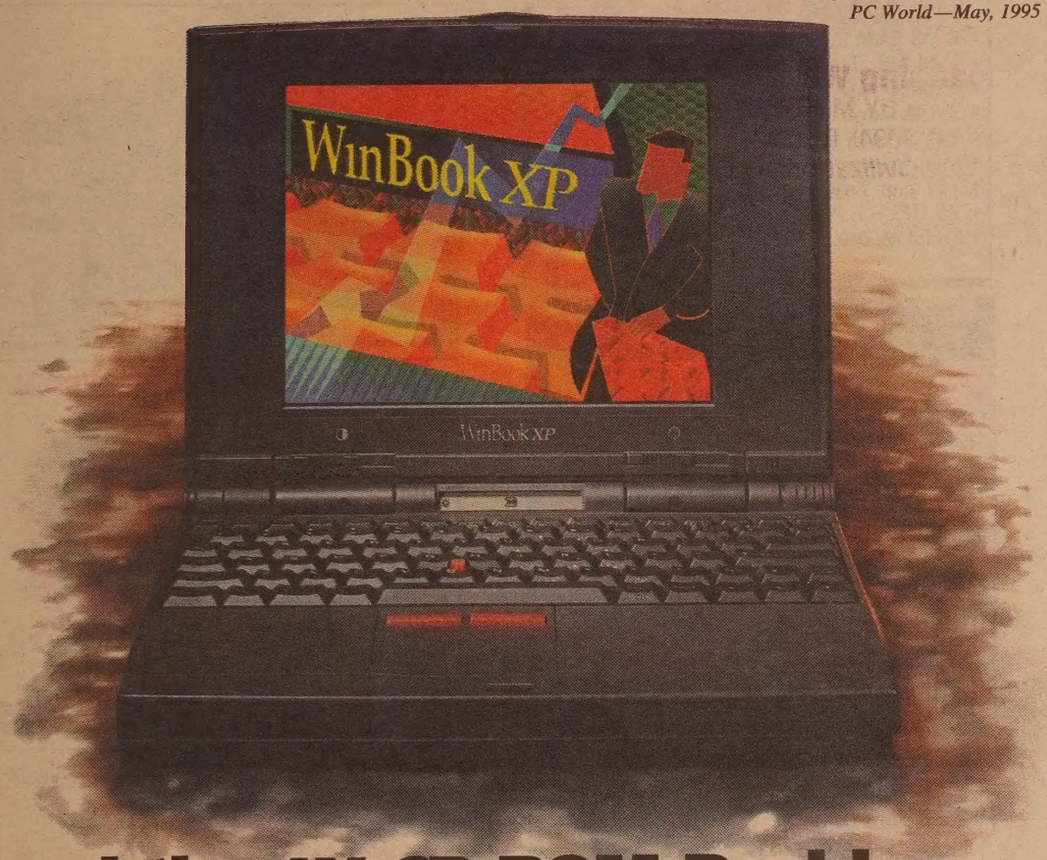

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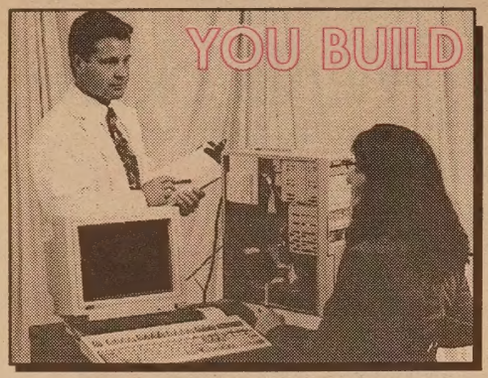

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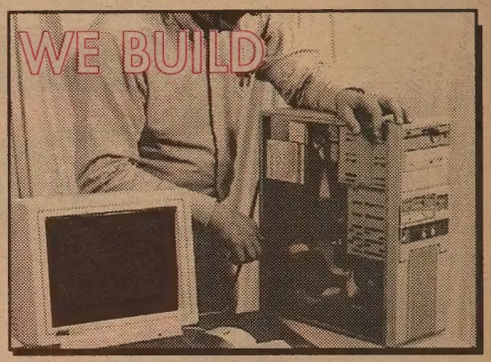

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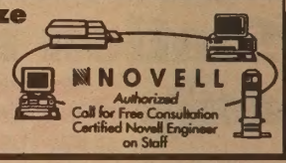

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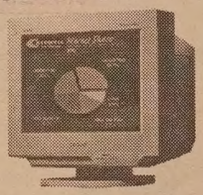

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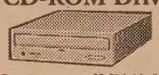

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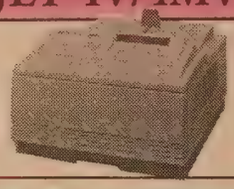

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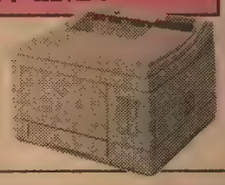

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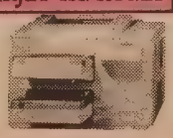

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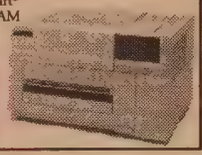

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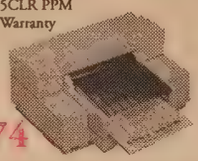

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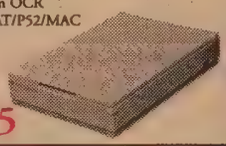

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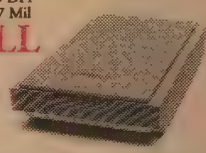

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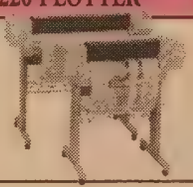

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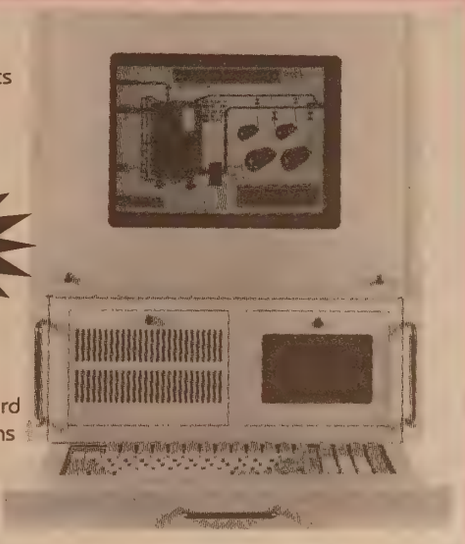

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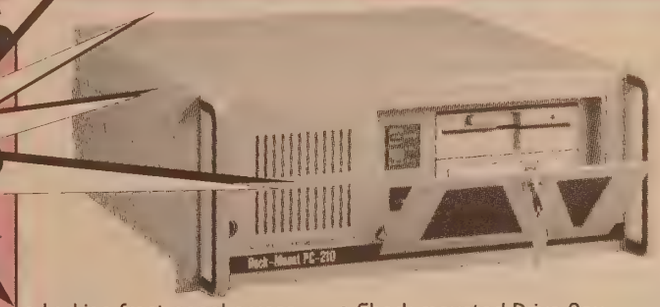

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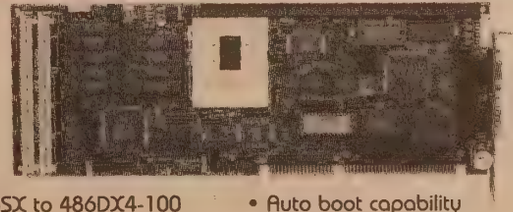

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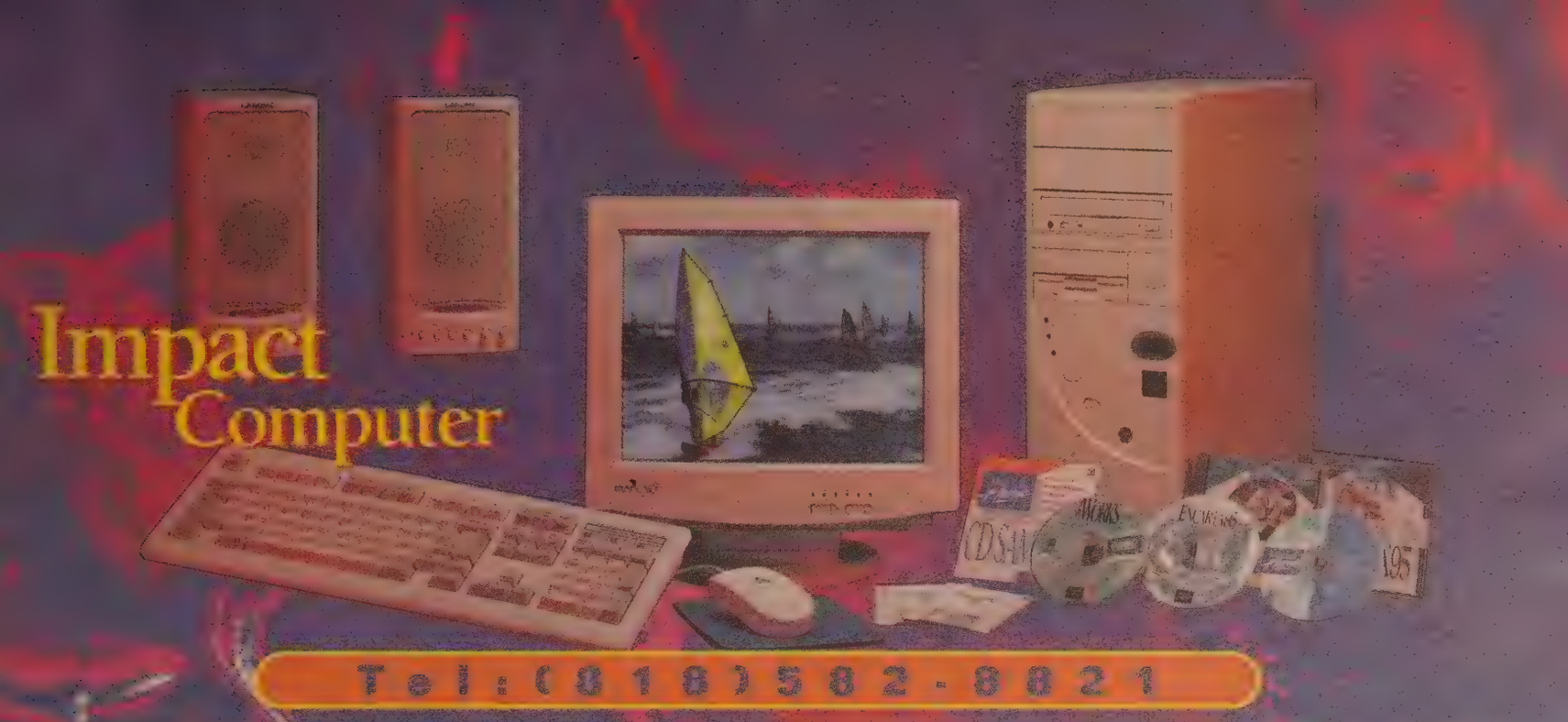

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BY PAUL HOFFMAN

Industry Insight

Windows 95 Stirring Excitement, Trepidation In Testers

Microsoft probably wishes that its legal problems were getting less press than the imminent release of its successor to Windows 3.1. With half a million copies of Windows 95 out in the market, many people are getting a chance to see what using the next generation of operating system will be like. As for any Microsoft product, the early reviews are mixed, and Microsoft is hedging its bets in many ways that are making corporate buyers very nervous.

The good news is that Windows 95 is pretty stable when running most Windows 3.1 and MS-DOS programs. Of course, bugs are being found, but by and large they are the kind of bugs that Microsoft can take care of in the month or two before it must freeze the software in preparation for shipping it at the end of August, its latest committed date. Even before its release, Windows 95 gets a high rating for backward compatibility.

Of course, Windows 95's most visually obvious features are also getting positive reviews from Windows 3.1 users who have gotten tired of the limited usefulness of the older Program Manager. Many people are even calling Windows 95 "Mac-like" (although these are often people who have never really used a Macintosh much). The file and program-launching interface in Windows 95 is also quite solid and reliable, although not as intuitive as many had hoped for.

Microsoft has shipped over four hundred thousand copies of the "final beta" release to almost anyone who sent in $30 so that they could evaluate what it would take to migrate from Windows 3.1. Unfortunately, before the disks were even all out, Microsoft also started to respond to complaints that the installation program did not work properly in many cases, and even when it did, configuring some parts of the operating system was difficult. Microsoft is still changing the installation process, which makes it impossible to use the "final beta" as much of a migration tool except to test existing Windows 3.1 programs, most of which run fine.

Further, the interface of Windows 95 is different enough that users are having a hard time figuring out where to look for particular features. They've been swamping the Windows 95 support lines and online conferences with so many questions that Microsoft admits it is way behind on answering some of the queries. Many beta testers have already given up on testing the software because they can't get it set up properly and are worried that the setup procedure will change significantly by the time the final product is shipped.

If Microsoft changes the installation and setup now, the vast majority of the books being written about Windows 95 will be wrong because they relied on not-so-final versions.

The fact that four hundred thousand people were willing to pay to run buggy software for Microsoft attests to its strength in the software market. However, the mass beta test will also probably slow initial sales of Windows 95 because early testers have found so many installation anomalies and so few software packages that are really optimized for Windows 95. With a much smaller beta test, more companies would have felt compelled to buy more copies of the final version early on. Now there is a great deal of discussion that no one wants to risk the first version from Microsoft.

Some of Windows 95's biggest missteps are in the area of the Internet. This is somewhat surprising given that Microsoft is strongly advocating Internet use and is (finally) building good Internet connection software into the operating system. For example, if you have a SLIP or PPP connection to the Internet, telling Windows 95 that this connection is your primary networking option takes many steps that include uninstalling networking software for hardware you don't have in your system, searching for the three or four different pieces of software you need to make your connection, and setting each one up. The "final beta" contained no information on how to do this, and there was no help available on the steps.

The Windows 95 installer is particularly odd with respect to minimal setups for portable computers. The "final beta" installer puts on less than it needs to, and some parts of Windows 95 hang when the needed parts aren't found. They don't give error messages, they don't crash: they just do nothing. The same has been reported by users doing custom installations following Microsoft's guidelines.

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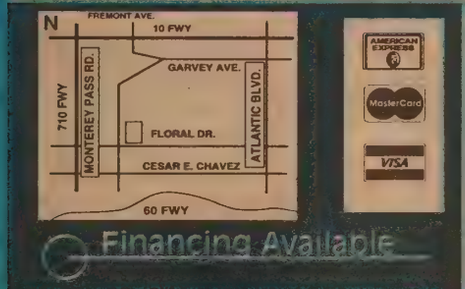

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Insights *continued...*

By the time Windows 95 is released, these problems may be fixed. But if Microsoft changes the installation and setup now, the vast majority of the books being written about Windows 95 (and there will be literally hundreds of them coming out by the end of the year) will be wrong because they relied on not-so-final versions. This is what worries corporate customers the most: that their users will be getting mixed messages about what does and doesn't work in Windows 95.

The fact that Windows 95 works on a 386-based system with 4MB of RAM may expose its speed weaknesses more than if Microsoft insisted that users have 8MB. Windows 95 does run on a 4MB system with a slow CPU; however, it runs so slowly that the user can't tell whether or not it has crashed. Some parts seem to run just fine; others barely run at all. Increasing the RAM to 8MB helps, but not completely. Windows 95 swaps memory on the hard drive much more than Windows 3.1 did, and many people are finding that the speed of their hard drive is a significant bottleneck.

Many observers expect Intel to drop production of 486s (at least for standard computers) within a year.

Thus, the boom in portable PCs could seriously hinder Windows 95. Most of the under-$3000 portable PCs you see advertised come with 4MB of RAM and a not-terribly-fast hard drive. Even if they have fast CPUs, running Windows 95 on them could be an exercise in torture that could send people running back to Windows 3.1. Humorously, these problems are mostly manifested in programs that use Windows 95's new multithreaded capabilities, not older Windows 3.1 programs.

In the past, most speed problems could be solved with a faster processor. However, some experts are saying that until you have at least 12MB in your PC, a faster CPU won't speed up Windows 95 by much since the slowdown is due to a great deal of disk swapping. Thus, Windows 95 may turn out to be unsuitable for many users with PC portables because so few have more than 8MB in them, and the vast majority have only 4MB. With RAM prices rising and staying high for the foreseeable future, and with the speed of portable hard drives not getting much faster, people with more than one computer may choose to wait a year or more before upgrading to Windows 95.

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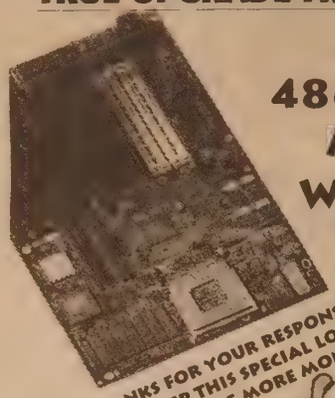

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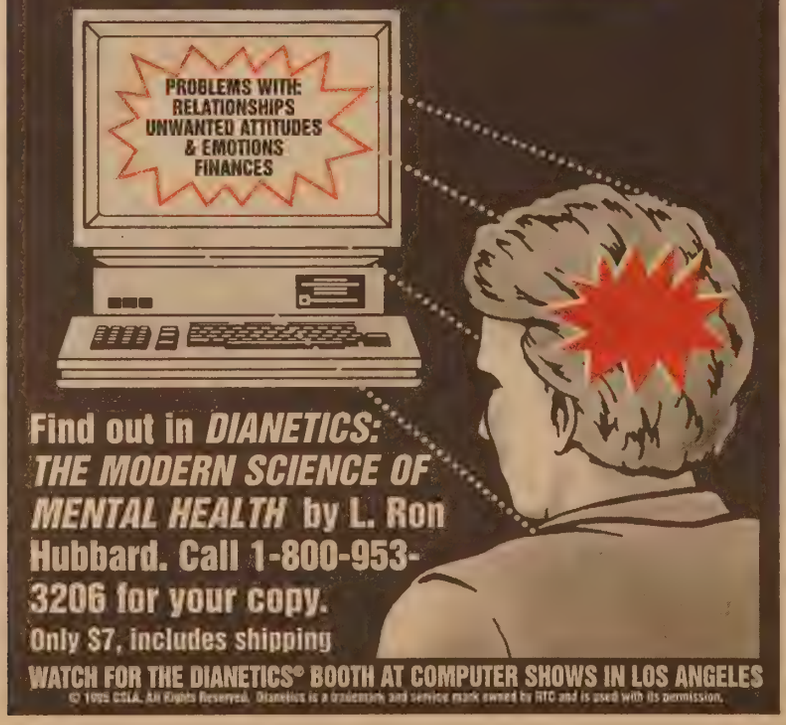

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Insights *continued...*

PC market is certainly moving towards faster and cheaper CPUs. Intel recently slashed its prices on Pentium CPUs and made it clear that it wants to see the end of the 486 market come as soon as possible. For example, Intel is now not including prices for the 486 processors it sells in its price list. Many observers expect Intel to drop production of 486s (at least for standard computers) within a year.

Intel's moves will probably not hurt people buying low-end PCs with 486 CPUs—there is still a huge supply of those processors from Intel's competitors such as Cyrix and AMD. These competitors have yet to release their CPUs that will compete with the Pentium, and the only Pentium competitor on the market, manufactured by NexGen, has not been getting much of a following. There is clearly still quite a good market for 486-based PCs, particularly in the portable market where the price difference between a 486 system and Pentium system could be over $1000.

The price cuts will put a great deal of pressure on the other CPU manufacturers to keep their prices for Pentium competitors low when they finally release those chips. Intel dropped the prices of its fastest Pentiums by 30%, a hefty decrease given that Intel also cut its prices only a few months ago. For example, the cost for the 90MHz Pentium CPU is now $377, about $200 less than it cost six months ago. The 100MHz Pentium now costs $479, about half of what it cost six months ago.

On the flip side, the fact that Intel is phasing out its 486 line will give its competitors more room to price their CPUs and thus more profits in the short term. In the longer term, AMD and Cyrix will have their ability to sell 486s determined by Intel's publicity campaigns for the Pentium and the P6 processor that will start showing up around the end of this year. It is not clear how important Intel's "Intel Inside" campaign has been with end-users, or even with many computer manufacturers.

If Intel is successful in making the 486 seem slow or antiquated, AMD and Cyrix could be in a bind because they will not have ramped up production of (or even really released) their Pentium competitors. On the other hand, unless Intel can get the price of Pentium-based computers as low as today's 486-based computers, consumers will keep demanding 486s due to their price competitiveness.

Already, major manufacturers are making fun of the 486 in their advertising. For example, Dell has taken out many pages of advertising comparing the 486 to adding machines. Many other big-name manufacturers have adopted Pentium-only strategies—for their desktop models. However, when you look at their laptops, you see that all of the Dell models are still based on the 486. Pentium-based laptops make up less than 10% of the market today, and probably won't be more than 30% by the end of the year because of their high prices. ■

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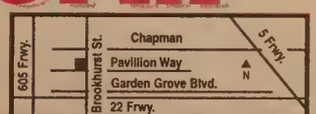

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MicroTimes Stock Index Continues Its Upward Trend

EXCH	COMPANY		TICKER SYMBOL	CLOSING PRICE 05/10/95	CLOSING PRICE 06/07/95	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD	P/E RATIO	ANNUAL DIVIDEND RATE	ANNUAL DIVIDEND YIELD	ANNUAL HIGH	ANNUAL LOW
	SOFTWARE											
OTC	Adobe		ADBE	53.75	53.50	-0.25	-0.47	167	0.20	0.37	58.75	24.50
OTC	Autodesk		ACAD	35.25	40.00	4.75	13.48	30	0.24	0.60	44.00	23.25
OTC	Borland		BORL	8.75	13.38	4.63	52.86	-	0.00	0.00	14.38	6.00
OTC	Informix	(H)	IFMX	42.50	44.88	2.38	5.59	42	0.00	0.00	49.25	14.25
OTC	Lotus	(H)	LOTS	34.25	62.38	28.13	82.12	-	0.00	0.00	62.38	25.00
OTC	Microsoft	(H)	MSFT	79.25	84.00	4.75	5.99	36	0.00	0.00	89.50	46.88
OTC	Novell	(H)	NOVL	20.63	20.25	-0.38	-1.82	38	0.00	0.00	23.25	13.38
OTC	Oracle	(H)	ORCL	31.13	35.25	4.13	13.25	41	0.00	0.00	38.50	22.66
OTC	Software Publishing		SPCO	3.38	3.50	0.13	3.70	-	0.00	0.00	6.25	2.88
OTC	Symantec	(H)	SYMC	22.00	25.38	3.38	15.34	33	0.00	0.00	26.13	9.88
	HARDWARE											
OTC	Apple		AAPL	41.44	43.13	1.69	4.07	10	0.48	1.11	48.08	24.63
OTC	AST Research		ASTA	17.13	17.63	0.50	2.92	-	0.00	0.00	19.25	10.38
NYS	Compaq		CPQ	38.00	40.00	2.00	5.26	12	0.00	0.00	44.38	29.50
NYS	Digital Equipment	(H)	DEC	45.00	42.13	-2.88	-6.39	-	0.00	0.00	49.50	18.38
OTC	Dell	(H)	DELL	54.75	53.13	-1.63	-2.97	13	0.00	0.00	58.63	23.50
NYS	Hewlett-Packard	(H)	HWP	68.13	68.50	0.38	0.55	18	0.80	1.17	72.50	35.94
NYS	IBM	(H)	IBM	93.88	89.88	-4.00	-4.26	14	1.00	1.11	97.88	54.50
NYS	Silicon Graphics	(H)	SGI	36.75	38.13	1.38	3.74	30	0.00	0.00	40.13	18.75
OTC	Sun Microsystems	(H)	SUNW	42.88	48.88	6.00	13.99	16	0.00	0.00	50.50	18.25
NYS	Xerox		XRX	116.50	111.38	-5.13	-4.40	16	3.00	2.69	125.88	90.63
NYS	Tandy		TAN	47.00	46.75	-0.25	-0.53	16	0.72	1.54	52.38	33.38
	CPU'S											
NYS	Advanced Micro Devices	(H)	AMD	37.13	33.75	-3.38	-9.09	11	0.00	0.00	37.63	22.25
OTC	Intel	(H)	INTC	108.75	113.13	4.38	4.02	19	0.16	0.14	119.63	56.13
NYS	LSI Logic	(H)	LSI	68.00	68.25	0.25	0.37	29	0.00	0.00	77.25	22.50
NYS	Motorola		MOT	58.50	59.50	1.00	1.71	22	0.40	0.67	64.75	43.38
	COMMUNICATIONS											
NYS	AT&T		T	51.50	49.88	-1.63	-3.16	16	1.32	2.65	57.00	47.25
NYS	BellSouth Corp.		BLS	62.38	60.38	-2.00	-3.21	14	2.76	4.57	63.50	50.50
OTC	MCI		MCIC	20.56	20.25	-0.31	-1.52	15	0.05	0.25	25.88	17.25
NYS	Northern Telecom		NT	35.88	37.75	1.88	5.23	25	0.44	1.17	41.00	27.63
NYS	Pacific Telesis	(L)	PAC	29.75	27.13	-2.63	-8.82	10	2.18	8.04	33.38	25.63

KEY: NYS = NEW YORK ASE = AMERICAN OTC = OVER THE COUNTER
(H) = NEW HIGH REACHED IN PERIOD (L) = NEW LOW REACHED IN PERIOD

MARKET DIARY:

ADVANCES	18
DECLINES	12
UNCHANGED	0
NEW HIGHS	15
NEW LOWS	1

MOST ACTIVE ISSUES:

LARGEST DOLLAR GAINER	Lotus	$ 28.13
LARGEST DOLLAR LOSER	Xerox	$ -5.13
LARGEST PERCENTAGE GAINER	Lotus	82.12 %
LARGEST PERCENTAGE LOSER	Advanced Micro Devices	-9.09 %

	CLOSE 05/10/95	CLOSE 06/07/95	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD
MICROTIMES STOCK INDEX	6571.21	6982.06	410.85	6.25
DOW JONES INDUSTRIAL AVERAGE	4404.62	4462.03	57.41	1.30
STANDARD & POOR'S 500 INDEX	524.36	533.13	8.77	1.67
N.Y.S.E. COMPOSITE	282.41	286.96	4.55	1.61
NASDAQ COMPOSITE	847.62	881.58	33.96	4.01

CLOSING QUOTES FOR GRAPH:

DATE	MICRO TIMES	DOW JONES
10/27/94	5478.47	3875.15
12/16/94	5370.37	3807.19
01/18/95	5832.57	3928.98
02/16/95	5961.54	3987.52
03/15/95	6042.96	4038.37
04/12/95	6270.71	4197.81
05/10/95	6571.21	4404.62
06/07/95	6982.06	4462.03

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Technology stocks continued their bullish performance during the monthly period ended June 7, 1995. Specifically, the MicroTimes Stock Index skyrocketed 410.85 points, or 6.25%, to close at 6982.06, marking another record high. In comparison, the Dow Jones Industrial Average gained 57.41 points, or 1.30%, coming to rest at 4462.03 after hitting a high of 4485.20 during the period.

In our index, advancing issues outpaced declining issues by a 3-to-2 margin, and there were fifteen issues reaching new 52-week highs vs. one issue hitting a new 52-week low.

Turning to the stocks in the MicroTimes Index:

IBM made a $3.3 billion offer to buy Lotus Development Corp.; and according to a *USA Today* report which cited John McCarthy of Forrester Research, IBM may be following up with more acquisitions. Other possible targets are the software companies Netscape Communications Corp. and Spyglass. Shares for IBM during the last period dropped 4 points, or 4.26%, to $89.88.

What comes as little surprise is that Lotus Development Corp. was the largest dollar and percentage gainer in our index, following the tender offer of $60 per share by IBM. Lotus jumped 28.13 points, or 82.12%, to a 52-week high of $62.38.

Intel Corp. announced it will build a $30 million computer chip assembly and testing plant in Shanghai. Intel's chief operational officer, Craig Barrett, said "It facilitates our presence and solidifies our presence in the Chinese economy." Intel Corp. rose 4.38 points, or 4.02%, to $113.13.

Compaq Computer Corp. cut prices on its notebook computers by as much as 20%. The price on the LTE Elite 4/40C was cut to $1999 from $2499, and other LTE Elite models were cut by 16 to 18%. In addition, eight Contura models were cut by 16 to 18%. Shares for Compaq rose 2 points, or 5.26%, to $40. ■

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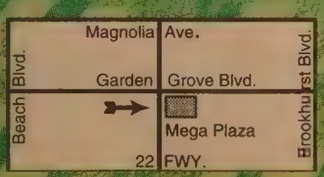

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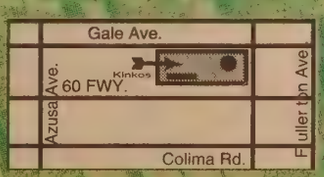

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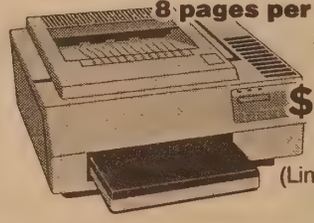

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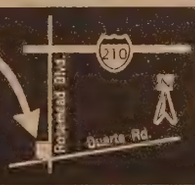

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REALIZABLE FANTASIES • BY JIM WARREN

It's Action Time, Folks. *Mount Up!*

Make Waves. Netsurf For Freedom! Now!!

I thought we had until next year's election season before we needed to do this.

But we can't wait.

1. The irresponsible overreactions to the Oklahoma City lunacy by the posturing Democratic administration and the pandering Republican Congress—with their Orwellian proposals for a high-tech police-state surveillance bureaucracy—have changed everything. (See columns in November, January, March, and May *MicroTimes* for details of government's threats, now wildly escalating with Oklahoma as their excuse.)

2. *Current* federal, state, and local legislative and policy efforts to censor our speech and press, suppress our access to public information, and impose by-the-minute pricing on our every communication—thus aborting our effective participation in our own governance—escalate the need for citizen action.

3. And arrogant efforts within state and local executive and judicial branches to hold back the sunrise; to refuse at-cost or "free" [tax-prepaid] public access to tax-funded, already-computerized *public* records in their *useful* [digital] forms, scream out for redress. California's legislature makes its records freely available via the Internet, and receives about sixty thousand electronic requests per month. It's time for the other two branches of government to accept the future.

It's clear that we must act. *Now.*

The Ultimate Power-Amps

Interconnected personal computers are potent power amplifiers.

They can provide the two essential prerequisites of political power: (1) timely access to adequate information and discourse on which to base sound decisions, and (2) economical access to the body politic—crucial for effective community action to implement those decisions.

The Internet and everything connected to it—e.g., the higher-priced commercial nets like Compu$erve, Plodigy, AOL, etc.—is the next century's Great Equalizer. It can empower politically *irresistible* grassroots citizen action at the federal and state levels—if we use it before we lose it.

BBSes (bulletin board systems) and community nets—at least those that are not controlled or censored by government owners—are the best weapons that citizens can use to defend themselves against unresponsive or oppressive local government. They can empower diligent citizens to regain *community* control of what has become government of the politicians, by the bureaucrats, for the special interests.

No longer must we be handsome or beautiful, wear a suit, walk precincts, nor subvert ourselves to the dictates of established political organizations in order to have potent political power. Here's the viable alternative.

Math Prerequisite

Every experienced politician is an expert mathematician—well, at least to the extent of knowing the following arithmetic at a knee-jerk, autonomic level:

(Keep in mind that politics is persuasion, and all action is local.)

Let's say a state or federal legislative district has about 500,000 population. Sounds like we have to persuade 250,000 people to vote your way. Forget it!—sez the naive citizen.

But perhaps 20% are children. Okay, that's 400,000, and maybe we have to persuade 200,000. Still too hopeless for folks without bad haircuts and funny accents (as billionaire Ross Perot described himself).

But only about 60% of the adults are registered to vote—about 240,000 voters. And they're identifiable; their names are a matter of public record. (Of course incumbents who already have voters' names and other mechanisms to contact them, and machine politicians who use graveyard voters, would love to make voter registrations secret—to protect voter privacy, of course. Worse still, some folks want to have the power to impose their will on everyone else—as voters—but nonetheless want to keep their identity secret from those whom they will thus impact. But that's a different issue.)

Okay, 240,000 registered voters still means we'd have to persuade 120,000—too many for Joe and Josephine Citizen.

But only about 60% of those who are registered actually vote—and they are

* * * * *

The Internet, and everything connected to it, is the next century's ***Great Equalizer.*** It can empower politically irresistible grassroots ***citizen action*** at the federal and state levels—if we use it ***before we lose it.***

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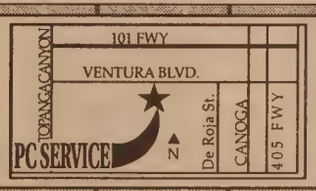

Realizable Fantasies *continued...*

reasonably identifiable, either because registrar records show they voted in the last major election or list them as recent registrants. That's about 150,000. Then do we have to persuade 75,000? Nope!

In even the most trivially contested election, typically the incumbent will win by less than 70% (about 100,000 votes).

But here's the real kicker!—seriously contested elections are *typically decided by less than 10% of those voting.*

Hot dang! That means that, if we can persuade 15,000 voters, we win. In fact, it's even better than that:

If we can swing 7500—5% of the voters—from the opposing side to our side, then we can often personally control an election in a 500,000-population district!

(O' course, identifying that 7500 is nontrivial, but nobody said freedom was easy.)

Net Power

So how can the computer nets be used?

Only 4% to 8% of US adults are connected to the Internet, and the same political arithmetic probably applies to net folks as to the general population. So the nets *might* be useful for *effective* direct advocacy—*if* we could identify all the netvolks in the target district. But we can't. Bummer!

However, the political power of the nets is not so much in their ability to *directly* reach voters.

The real power of the nets is their utility for coordinating and facilitating outreach for grassroots advocacy—at almost NO financial cost to the advocates (*if* we can continue to avoid per-minute and per-byte usage fees and assure equal access as something more than cash-emitting couch potatoes!).

How To Use It: Nuts And Bolts

There's another long-tested political truism: The most effective political advocate is a normal citizen who is not perceived as being a political pro.

The most effective contact is face-to-face. But meeting 7500 people is a *real* hassle. Nonetheless, it's worth walking precincts—*if* you have the time, *and* have a list of likely voters sorted in walking-order, *and* are personally persuasive even when facing strangers who are irritated that you knocked on their doors in the first place. Okay—forget that.

The *next* most effective contact is by mail.

What if you don't have the time or postage money to produce tens of thousands of letters? No problem—use the nets to ask for help:

1. Post messages in all the appropriate places and to all the appropriate listservs saying that you are coordinating a grassroots effort for or against your chosen candidate or campaign. Ask for volunteers who are willing to help a little bit, from the convenience and privacy of their own homes.

If nobody answers, go back to studying C++ programming.

continued on page 66

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Letters

Multitasking And Windows We Stand Corrected!

Mitch Gordon's article in our last issue certainly generated some reaction... Our thanks to the many readers who caught this error and set us straight. —eds.

The article by Mitch Gordon ("Learning Windows") on Task Switching and Multitasking (May 29) is incorrect. It is not true that Win 3.1 is unable to run several tasks at the same time.

For years I have been able to download files from a BBS, sort a large reference database, or print a complex graphic in the background while using MS Word or Excel in the foreground. There may be a performance hit on some of these tasks, but even using a 33MHz 486 the convenience of being able to use Word while a file is downloading outweighs the slight performance hit.

There might be an argument over whether or not Win 3.1 is "true" multitasking, but the fact is that background applications are not in a "state of suspended animation" as suggested in the sidebar.

Peter Ohara
via Internet

Back in 1987, Apple shipped something called MultiFinder to everyone buying Macintosh computers. Back then there was lots of discussion about "true multitasking," because MultiFinder had something called "cooperative multitasking." Later, that feature was built into Macintosh System 7.

Now that Microsoft Windows has the same feature, I was pleased to see a column in *MicroTimes* about it, calling it "task switching." I assumed that with the Macintosh vs. PC rivalry out of the way, someone would explain the practical differences between the two types of multitasking.

Much to my dismay, I read the following in a sidebar to the column: "a task-switching operating system allows you to leave a running application and work in a different one, but the abandoned application can perform no work... Windows 3.1 and Macintosh System 7.5 are task-switching operating systems."

This explanation is wrong. It is the same misinformation that was circulating back eight years ago. On Macintosh you can use two programs at once, and the background application can continue to do work. I presume the same is true under Windows, since the other concepts from Macintosh system software were reproduced faithfully.

The sidebar gives examples of specific useful things you can do in the background on "true multitasking" systems, mentioning file downloads and printing long documents. The terminal programs I use on Macintosh allow me to leave and do other work while a download is taking place. While I print a long document I can use other applications. I often grab multiple files from the Internet while writing a letter or reading mail. I imagine this all works the same way with Windows.

The computer should be judged on how well it works, not the technology that underlies it. I use UNIX systems for programming in my job. Although these have "true multitasking," they aren't so good at quickly responding to my mouse clicks.

As I understand it, "true multitasking" should mean that Macintosh System 8 and Microsoft Windows 95 will do the same things better; perhaps more smoothly. But Mitch Gordon's article repeats the long-standing myth that the existing versions of these operating systems don't even let you do two things at once.

Darin Adler
via Internet

In his article on Learning Windows (*MicroTimes*, May 29, p. 176), Mitch Gordon is just flat wrong when he says that under Windows 3.1 and Mac OS, programs that are switched to the background "can perform no work" and are placed in "a state of suspended animation."

Under these cooperative multitasking operating systems, properly written programs can and do get time to operate while in the background. You can run into problems if the foreground program doesn't "cooperate" by releasing time to the OS to let background programs run, but almost no commercial packages work that way anymore.

Mr. Gordon gives the example of "file downloads" from a BBS as a time-consuming operation with which, under Windows or MacOS, "your computer is tied up until it finishes." Well, I'm composing this email to you in Eudora in the foreground on a Mac while uploading a file to CompuServe in background using MicroPhone Pro...

Outside of those "rogue programs" that don't release time to the OS, the differences between cooperative and preemptive multitasking are of almost no interest to end-users. (The differences are of great interest to programmers, but that's another story!)

Bob Murphy
via Internet

I was quite surprised to see such misinformation five years after the release of Windows 3.0. While Windows is perfectly capable of acting as a task-switcher ("Standard Mode"), in general it is used to do multitasking (albeit "cooperative multitasking"). I could never have done my work if I couldn't run Paradox queries in background while designing presentations in Excel of the data they would extract.

Unquestionably, as Mitch's sidebar relates, the preemptive multitasking of operating systems such as OS/2 are far superior to the cooperative multitasking of Windows, but Windows is, and has been for years, much more than a task-switcher.

Rich Gorin
Team OS/2

continued on page 63

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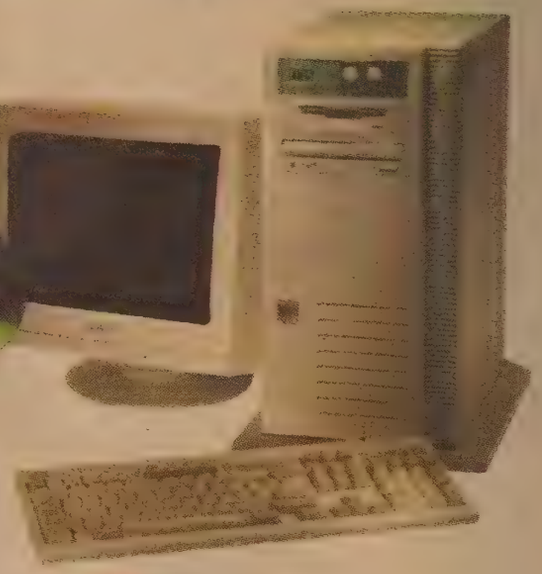

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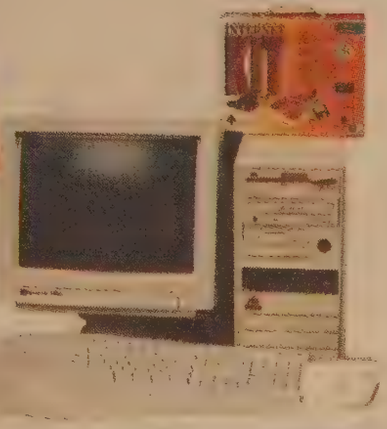

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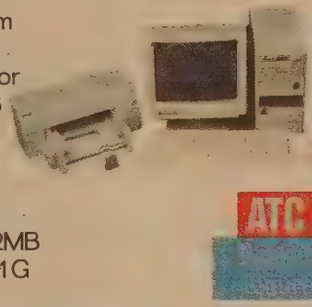

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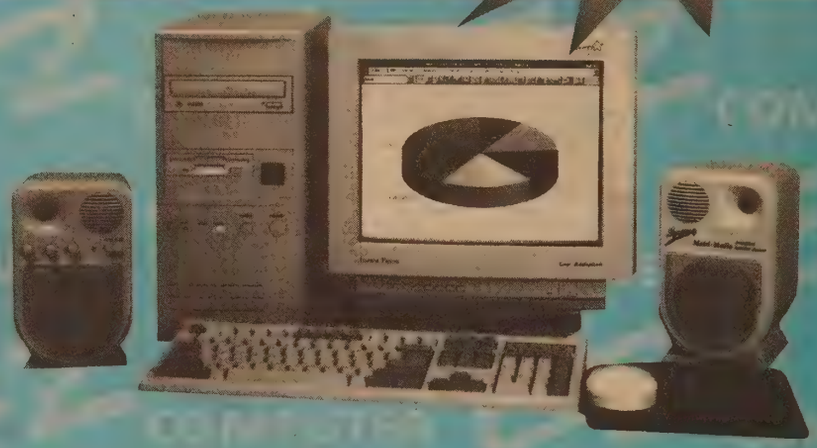

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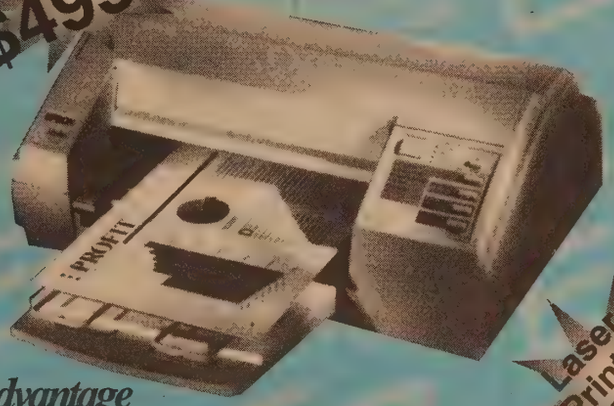

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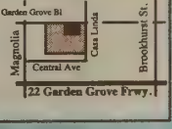

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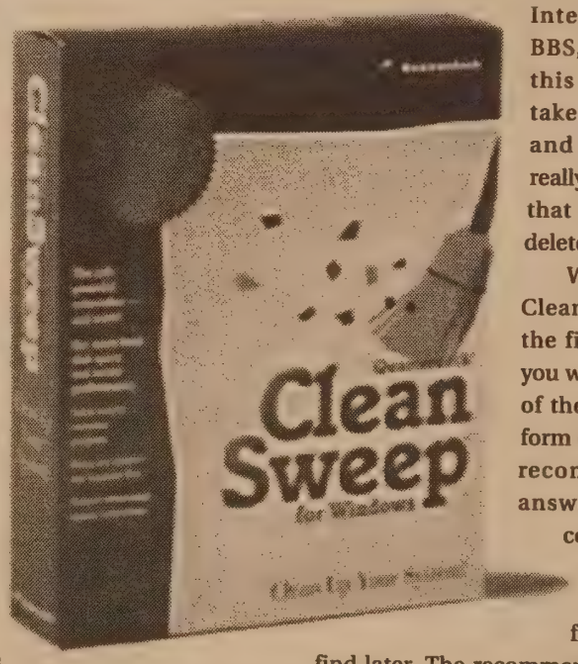
LAPTOPS • BY ED KAHN

Clean Sweep

Quarterdeck Has Built A Better Mousetrap For Removing Software From Your System

Keeping a hard disk clean, especially if you use Windows, is a problem. Several months ago, I discussed a program designed to remove all of the files associated with any program. I found a better mousetrap and decided to revisit the same territory again. While I liked Uninstaller 2, I found it to have a number of problems that made it more difficult to use than I would have liked for a novice.



Quarterdeck Software has come out with a program that is a dream. You find the program that you want to eliminate and ask the software to remove it from your hard drive. It presents you with a list of files that it believes belong to the program you want off your hard drive. It also makes the necessary modifications to .ini files. If you are anything like me, you do not really know just which files and statements have to be removed. The point of this software is to make those decisions for you.

CleanSweep does just that. One of the great features of this program is that either on start-up or at your command, the program makes a database of each program you have in Windows' Program Manager. In this way, it assembles a listing of which programs are installed and which files they each need. The result is that when you say you want to remove an application, CleanSweep has a pretty good idea of just what needs to be done. Part of what CleanSweep does to give added efficiency is employ a database of which components are used in the most popular programs on the market. This listing can be updated through the Internet, Quarterdeck's BBS, or CompuServe. In this way, guesswork is taken out of the process and you are assured of really removing everything that should go when you delete an application.

When you tell CleanSweep to go ahead, the first thing it asks is if you want to make a backup of the files in compressed form on your hard drive. It recommends that you answer yes. If you do, it copies all of the files it is about to remove into a compressed file that you can easily find later. The recommendation is that after a week or so you remove these compressed files when it is clear that you no longer need them. What a great system! You can afford to follow the recommendations of the program and if it is wrong, it is easy to restore whatever has been removed or modified. Removal is easy as each session is maintained in a separate file so you don't have to pick and choose which files to remove.

Going back later to see what you have done is simple as there is a log of each change you make. The log is complete, showing if you made a backup or not and even showing those sessions in which you merely made a test run. You can edit this file with your word processor in order to keep it current with the backup files you maintain.

But the program has other strengths. It can easily analyze your hard drive for duplicate files. It is also able to tell you something about each of these listings so you can decide whether to remove one or the other copy. Likewise, it will locate files that it thinks are left over from old deleted applications—applications removed before you had CleanSweep. In a short time you can easily clean your hard drive of duplicate, orphaned, and unwanted files. This program is perfectly designed for the novice user. No technical skill is required. If you simply follow the recommendations of the program, you will not get into any serious trouble. If you do get into trouble, it is not difficult to restore your system to what it had previously been.

The final strength of the program is that it will analyze your system files and recommend removal of portions of these files that you never use. While other programs can do a similar job, the strength of CleanSweep is that it will tell you in plain English just what the commands it proposes to remove do. In this way you can decide whether this is something you would like to have go or should keep just in case.

This is really the program you should get if you like to install software and later decide that you have found a better product. I find that after a time, my hard drive is filled with files that I simply do not know whether I need or not. In less than an hour, I was able to eliminate gobs of files that previously I simply did not feel free to remove.

RESOURCES:

CleanSweep, $59
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continued on page 203

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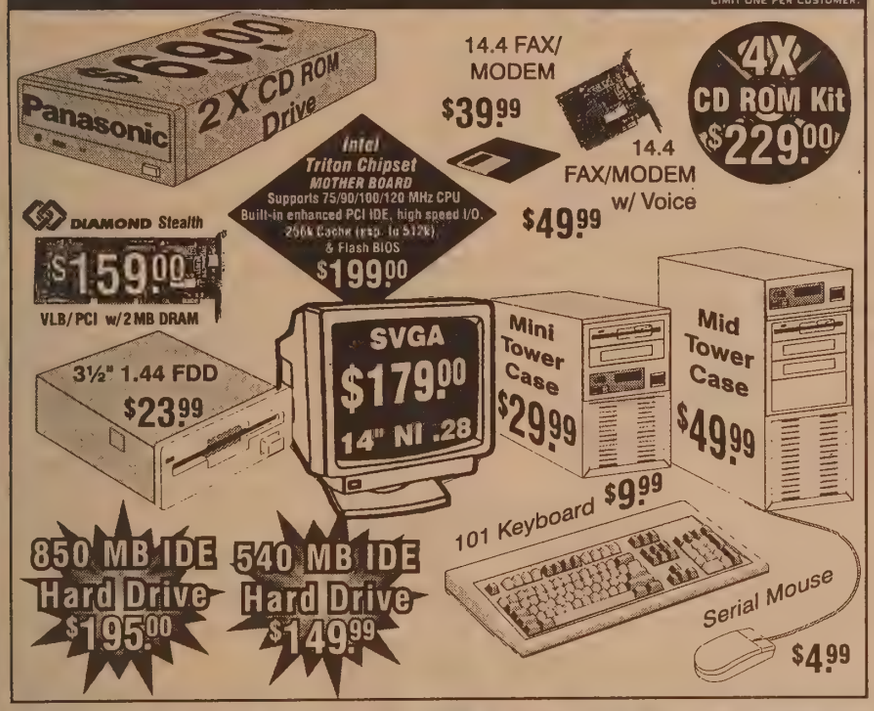

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TELECOMMUTING • BY ROBERT MOSKOWITZ

Cash For Telecommuting

Another View Of Cost-Savings Via Telecommuting

Telecommuting is extremely cost effective. According to Noel Hodson, a British-based telecommuting consultant who travels the world demonstrating its benefits to employers and employees alike, "Organizations may benefit, in ideal circumstances, by the equivalent of the gross salary of each home-based teleworker they employ, when the teleworker's extra output is taken into account. Individuals may benefit, in ideal circumstances, by the equivalent of a sixth or a fifth of their salary."

The self-employed, Hodson notes, collect both the employer's and the employee's side of the benefits from telecommuting.

Hodson's unique analysis of telecommuting from a cost/benefit perspective involves looking at certain specific cost centers:

Productivity

Just about every study of telecommuting cites significant productivity increases for those who work away from the office. Hodson's are no different. In fact, I can't think of a single instance where productivity was found to be reduced by telecommuting, although there are cases where observers do not notice an increase.

Productivity increases related to telecommuting come from a variety of sources:

•Fewer interruptions and time lost to office overhead conversations (about 18% of an office-bound workday is lost this way);

•Fewer days lost to illness (about seven days of office-bound work per year are lost this way—they can be regained by a telecommuter working at home despite an illness just bad enough to prevent a commute to the office); and, most importantly,

•Major time savings due to elimination of the commute to and from the office.

In one of Hodson's recent workshops, participants calculated that switching to telecommuting five days a week (not always desirable or recommended, but an easier basis on which to calculate costs and savings) would "create" an additional one hundred workdays per year.

If you consider that dressing and going to the office each day takes ninety minutes, and returning home and relaxing requires another ninety minutes, the computations (five days x 180 minutes per day) show that ninety hours or two work days per week are saved by the switch to full-time telecommuting. Your mileage may vary, of course, but the concept is generally the same, and very positive for everyone.

With extra hours in every day, and extra days during the year, it's only natural for telecommuters to accomplish more than their office-bound counterparts.

It doesn't take rocket-scientists to see how this productivity converts into extra profits for the employer.

At American Express Travel Services in Houston, Texas, for example, Hodson says that travel agents who work via telecommuting handle about 26% more calls per day and produce about 46% more business than comparably experienced travel agents working in conventional offices. The costs for all this extra income? As you'll see in a few minutes, they're almost negligible.

Productivity increases even more if you consider the ratio of work to employer expenses. Since teleworkers are not only less expensive and more productive per hour of work, but have more hours per day in which to work, according to Hodson the employer's cost per unit of work delivered literally plummets as much as 20% or more.

I can't think of a single instance where productivity was found to be reduced by telecommuting, although there are cases where observers do not notice an increase.

Commuting

Hodson suggests that employers pay enough not only to maintain an employee's standard of living, but to cover the costs of commuting to and from work. That's why telecommuters often feel their new working arrangement is a kind of fringe benefit, and will often forego raises in return for the right to telecommute.

If you calculate the value of your time at only $5 per hour, eliminating a thirty-minute (each way) commute through five-day-a-week telecommuting brings you a clear benefit worth $1150 over the year (that's $5 x 230 workdays). Value your time higher, or eliminate a longer commute, and the benefit climbs even higher!

Business Travel

Telecommuting can eliminate not only the travel people do to work, but the travel people do from work, once they arrive. This includes fairly local travel during the day to meetings at other

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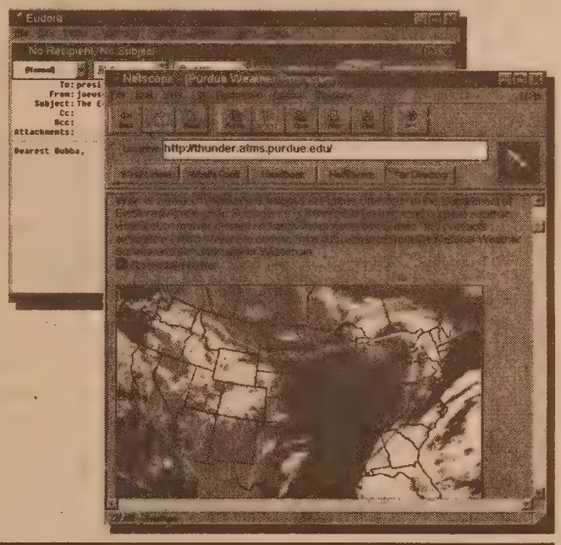

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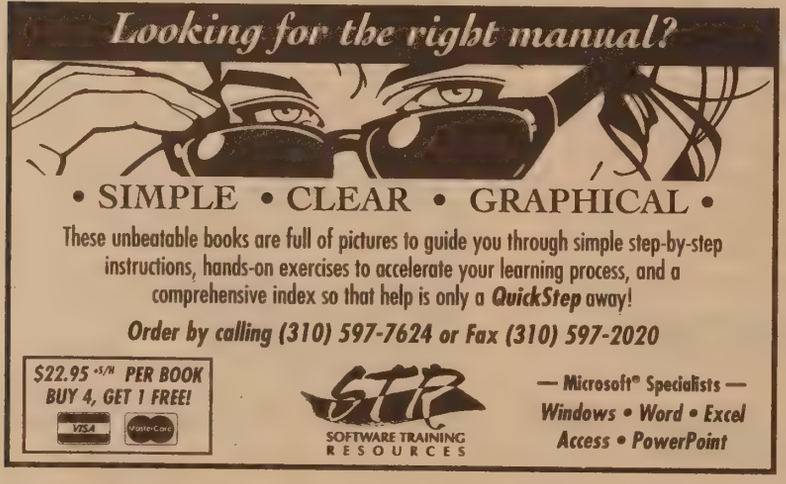
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Telecommuting *continued...*

locations, and travel done to more distant locations for a day or more at a time.

Substituting various forms of telecommuting for conventional business travel offers great cost-savings opportunities for both the organization (which would otherwise pay hundreds or thousands of dollars per day in salaried time that produces very little, plus mileage costs, airfare, hotel, taxi, and meal expenses), and for the individual (who would otherwise lose time away from the family and away from other opportunities to do productive work).

Hodson recounts the example of a firm which recovered its entire $160,000 investment in videoconferencing equipment just in the first few months of using it. A great deal of business travel is unpaid—including nights spent away from home and weekend days spent traveling to and from weekday meetings.

Equipment

One of the big objections to telecommuting is the expense of setting up workstations away from the office. But studies show this expense to be very small in relation to the savings and other benefits of telecommuting.

In American Express Travel Services, for example, each telecommuting travel sales agent costs the company about $1300 over three years. This includes the one-time relocation and installation costs for computer and telephone equipment, plus the ongoing telephone line and usage charges. Against this expense, the company saves about $4400 per year in office space rental. At the end of three years, the company has saved $11,900.

Equipment and workstation costs tend to be low in the US, Hodson reports, because as many as 75% of US telecommuters already had access to a suitable computer when they first began telecommuting. Even when equipment must be purchased and installed, the cost of telecommuting never even comes close to wiping out the benefits.

Equipment costs can rise, however, in some cases as high as $8000 or more. One reason for higher equipment costs is when the teleworker uses a computer both in the office and at the telecommuting work site. That's why Hodson recommends that part-time telecommuters who depend on computer capabilities should receive portable computers they can transport with them from one site to another, as necessary.

Availability

The conventional wisdom is that telecommuters are more difficult to reach than people who work in a centralized office setting. But Hodson's research points to a different conclusion.

People tend to be about 15% more available to their supervisors and their coworkers when they are telecommuting than when they are working in a traditional office.

One reason is that teleworkers tend to view their workstyle as a privilege to be protected. So they are highly motivated to be seen as hard-working, readily available members

of the team. Another reason is undoubtedly that the fear of teleworkers falling out of touch is nothing but an unsubstantiated myth left over from an earlier, but rapidly fading, era.

Recruiting, Motivation, And Retention

It's well documented that telecommuting makes it easier to recruit employees from a wider geographical area. Because it's generally viewed as a benefit, it enhances an employer's recruiting package and also motivates employees once they are hired. Since few people who begin telecommuting are later willing to give it up, when other opportunities arise telecommuters often feel their flexible working style is one more reason to stay with their present employer.

People tend to be about 15% more available to their supervisors and their coworkers when they are telecommuting than when they are working in a traditional office.

Hodson points out that replacing and training a high-level professional or executive can cost a company as much as $100,000. To the extent key employees stay because they have the opportunity to telecommute, some of that potential expense should be considered a savings attributable to telecommuting.

Even more to the point, losing such an employee to another company can mean one firm is underwriting the training costs of a competitor.

Noel Hodson can be reached in Great Britain (note the time difference: eight hours later than the West Coast, five hours later than the East Coast of the US) at 011-44-1865-60994. His fax number is: 011-44-1865-64520.

"Smart" Phone Integrates Home And Office

Telephones keep getting smarter and smarter. Already, there's "follow me" service in some parts of the country that allows you to quickly and easily—and instantly—switch your phone calls from one location to another. With this technology, you can give people a single telephone number and take all your calls in your office, on your boat, or anywhere in between.

Now a new "MultiMux" modem from MultiTech Systems, Mounds View, MN (612/631-3550), provides a virtually invisible telecommunications connection between a telecommuter and his or her headquarters' office.

According to Paul Kraska, product marketing manager, the new device is an intelligent multiplexer that can combine

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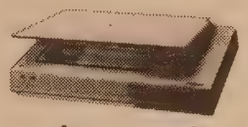

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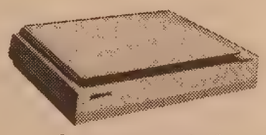

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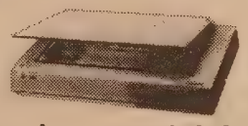

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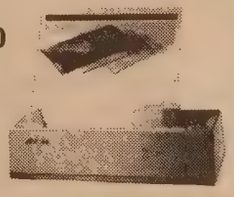

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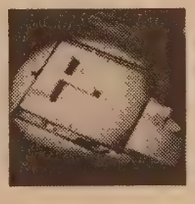

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voice, data, and fax lines and send the information through 28,800bps modem over a standard twisted pair telephone line.

What's more, the devices (you need one at each end of the telephone line) make the telecommuter's phone a practical extension of the office PBX and local area network.

Once it's connected, whenever someone calls your office extension, the phone call is automatically transferred to your telecommuting workstation—whether at home or on the road.

It will also have use of the PBX's capabilities. If you get a second call on your office line, you'll hear a beep in your handset at home, and can switch back and forth between the calls, just as you can at the office.

When you call the office, the MultiMax will automatically call you back to put toll charges on the office PBX instead of your home telephone bill. Dial 9 at home, and you are connected to an outside line through your office PBX.

Available for delivery right now, the devices are among the first to make the distance in distance working virtually disappear.

Intelligent Answering Machine Perfect For Telecommuters

Here's another advance in telephone technology: the Northern Telecom Caller ID Integrated Digital Answering Machine. Designated the M9516, this answering machine with built-in telephone does the work of some switchboard operators all by itself.

For example, the M9516 logs the originating numbers of the last seventy-five calls you have received (either all your calls, or just the calls you haven't answered—it's your choice). It also allows you to create a directory of up to seventy-five names and numbers that you can speed-dial via scroll-keys or the alphanumeric keypad.

Switching to telecommuting five days a week would "create" an additional one hundred workdays per year.

The integrated Caller ID feature allows for an interesting "Preferred Match" capability. With this, you can program the answering machine to respond differently when you get calls from particular people listed in your dialing directory.

Inside the answering machine, you can create as many as nine separate voice mailboxes. Calls from individuals or groups of people in your dialing directory can be shunted to any one of these nine mailboxes, where they can receive a customized greet-

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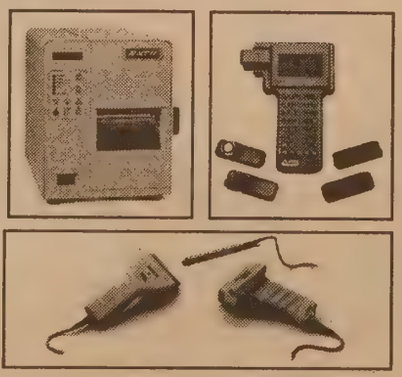

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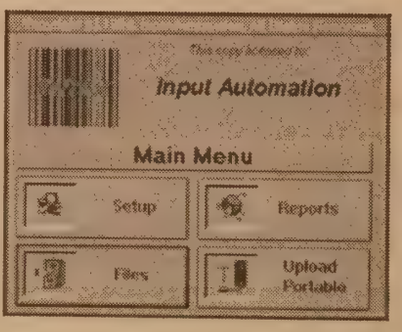

If you have a tracking need, be it tracking of assets, documents, people, inventory, tools, etc..., Input Automation's ONTRACK was created for you. Utilizing barcode technology for data collection, ONTRACK provides database management, queries, transaction history, reports, and more. Source code available.

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(Novell Certified Network Card)

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All NOVELL (OEM) softwares must be purchased with any network card or hub.

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intel inside pentium

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*All prices are subject to Change without prior notice

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Telecommuting *continued...*

ing and leave a message, too. These messages are all recorded on computer chips, rather than on tape, so you can scan through them for review or deletion selectively rather than sequentially.

You can even create project-by-project greetings to deal with individual colleagues. So when Sally calls to see how you're coming with the mail merge you promised her, she can hear your voice saying: "Hi, Sally. I've finished the mail merge and sent the file to your emailbox. I'm on the other line with Joe right now, so I'll call you back around 4 pm."

The M9516 can also speak and can announce the names of each person who calls—before you pick up the telephone. You can also program it to direct calls whose return phone numbers have been electronically blocked—such calls are frequently from sales people—to a special mailbox so you never have to answer them again.

Another programming option lets the machine answer calls and give an opening announcement, then lets the caller select whether to leave a message or ring through so you can answer.

These shunting and announcing capabilities can be valuable to telecommuters who want to prevent interruptions when they're concentrating on something important. For example, use the machine to screen your calls and answer only those you want, or let it give out customized messages to people while you focus on meeting your deadline.

If you can obtain the Distinctive Ringing service from your telephone company (which puts more than one incoming number on a single telephone line), the M9516 can give different answers to each of the different numbers. In addition, it can automatically route calls to one of the numbers to your fax machine—saving the cost of a special switch to do just this small task.

Naturally, the M9516 works with a headset, offers all its features via remote access, and even provides a call timer to help keep busy telecommuters on schedule.

For more details about the M9516, contact Northern Telecom locally, or phone the company at 1-800-4-NORTEL for product information and a local referral. ■

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First Name | Last Name

Number of Employees: ○ 1 to 10 ○ 10 to 50 ○ 50 to 100 ○ Over 100

Company Name | Title

What is Your Purchase Time Frame? ○ 1 Week ○ 2 Weeks ○ 3 Weeks ○ 4 Weeks

Address

Please Rank Your Choice — H=High L=Low
(H)(L) Price (H)(L) Service (H)(L) Reseller (H)(L) Warranty (H)(L) Onsite Support (H)(L) Compatibles (H)(L) Brand Name

City | State | Zip Code

To Be Used Where? ○ Business ○ Home ○ Network

Area Code Phone Number - - | Area Code Fax Number - -

E-Mail Address

E-mail address (continued)

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STEP ONE: PICK A SYSTEM.
○ PC COMPATIBLE ○ MACINTOSH
○ PC NAME BRAND ○ Network WORKSTATION
○ PC NOTEBOOK ○ Network FILESERVER
○ MACINTOSH NOTEBOOK

PICK YOUR PREFERENCES
○ Name Brand
○ Compatibles
○ No Preference

Step 1: Enter PC System Brand Name & Model #, If Preference

Step 1: Enter NoteBook Brand Name & Model #, If Preference

Quantity / Choices ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ 10 or More ○

My Budget For System Is ○ Under $1000 ○ $1000 to $1999 ○ $2000 to $2999 ○ $3000 to $3999 ○ $4000 to $4999 ○ Over $5000

Call Me For A More Detailed Quote. ○ Quote Me For Selected Upgrade/Peripherals Choices Only. ○

STEP TWO: CONFIGURATION REQUESTS:

CPU ○ PENTIUM ○ 486 ○ 386 ○ MAC QUADRA/PERFORMA ○ MACPOWER PC

CPU MHz SPEED:
○ DX4 ○ DX2 ○ DX ○ SX ○ SLC ○ Quadra ○ PowerPC
○ 120 ○ 100 ○ 90 ○ 80 ○ 75 ○ 66 ○ 60 ○ 50 ○ 40 ○ 33

BUS TYPE ○ PCI ○ VLB ○ EISA ○ ISA

CACHE ○ 64K ○ 128K ○ 256K ○ 512K

RAM: ○ 1MB ○ 2MB ○ 4MB ○ 8MB ○ 16MB ○ 32MB ○ 64MB ○ 128MB

HARD DISK DRIVE: ○ 100MB+ ○ 300MB+ ○ 500MB+ ○ 1GB+ ○ 4GB+
○ IDE ○ SCSI ○ 200MB+ ○ 400MB+ ○ 700MB+ ○ 2GB+ ○ 8GB+

MONITOR: ○ SVGA ○ VGA ○ MONO ○ 26 DPI
○ 14" ○ 15" ○ 17" ○ Non Interlace ○ 28 DPI
○ 20" ○ 21" ○ Multisync

FLOPPY DRIVE: ○ 1.44MB and/or ○ 1.2MB

FAX MODEM: ○ Internal ○ External ○ 9600bps ○ 14400bps ○ 28800bps

CASE TYPE: ○ Mid Tower ○ Desktop ○ Full Tower

VIDEO CARD RAM ○ 512KB ○ 1MB ○ 2MB ○ 3MB ○ 4MB

POINTING INPUT DEVICES: ○ Any Mouse ○ MS Mouse ○ Keyboard ○ Serial ○ Bus ○ PS2 ○ Trackball ○ Joystick ○ Ball Point ○ Pen

OPERATING SOFTWARES NEEDED: ○ DOS ○ OS2 ○ Mac ○ UNIX ○ MS Windows

STEP THREE: MULTIMEDIA UPGRADE ○ Please Add To Step 1 & 2 Quotation ○ Please Quote Me Separately

CD ROM DRIVE: ○ Internal ○ External ○ IDE ○ SCSI

CD ROM TITLES INCLUDED: ○ 1-5 ○ 5-10 ○ 11+

SPEED ○ 2X ○ 3X ○ 4X

○ BRAND NAME ○ No Brand Name Preference

CD ROM Brand Name and Model Number

SOUND CARD ○ 16Bit ○ 32Bit

SPEAKERS ○ Less Than 25W ○ 25 to 50W ○ 50 to 75W ○ More Than 75W

STEP FOUR: NOTEBOOK SECTION - Please Note You Must Make Choices In Steps 1 & 2 To Complete Step 4

SCREEN TYPE: ○ Mono ○ Dual Scan Color ○ Active Color

PCMCIA SLOT: ○ Type I ○ Type II ○ Type III ○ Type IV

○ Audio Capable ○ Fax Modem ○ Docking Station ○ Extra Battery

STEP FIVE: NETWORKING NEEDS: ○ Please Contact Me on My Networking Needs Indicated Below
○ Software ○ Hardware ○ Consultation ○ Design ○ Installation ○ Administration ○ MS Workgroups
○ Users 2 to 10 ○ Users 10 to 50 ○ Users Over 50 ○ Lantastic ○ Apple Talk ○ Novell ○ MS NT

STEP SIX: UPGRADES and PERIPHERALS. ○ Ink Jet Printer ○ Tape Backup ○ Accelerator
○ Color Printer ○ Dot Matrix Printer ○ Laser Printer ○ Flat Bed Scanner ○ Digitizer ○ Hand Scanner

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CITICOM COMPUTER

90 DAYS INTEREST FREE FINANCING

Pentium 90/100

- 90MHz Pentium Processor, 3.3V
- PCI LocalBus Motherboard w/ 256K
- PCI Local Bus
- Medium Tower Case and Power Supply
- 8MB RAM (72PIN)
- 540MB Hard Disk Drive (11ms)
- 1.44 Floppy Disk Drive
- 64-Bit PCI Local Bus Video w/ 2MB
- 15" .28 Non-Int SVGA Monitor
- PCI Local Bus IDE Controller
- 2 Serial and 1 Parallel Ports
- 101 Enhanced Keyboard
- Serial Mouse

$1595/1695

Pentium 75

- 75MHz Pentium Processor, 3.3V
- PCI Local Bus Motherboard w/ 256K
- PCI Local Bus
- Medium Tower Case and Power Supply
- 8MB RAM (72PIN)
- 540MB Hard Disk Drive (11ms)
- 1.44 Floppy Disk Drive
- 64-Bit PCI Local Bus Video w/ 2MB
- 14" .28 Non-Int SVGA Monitor
- PCI Local Bus IDE Controller
- 2 Serial and 1 Parallel Ports
- 101 Enhanced Keyboard
- Serial Mouse

$1345

486DX4-100

- 100MHz 486DX4 Processor, 3.3V
- Vesa Local Bus Motherboard w/ 256K
- Vesa Local Bus
- Mini Tower Case and Power Supply
- 8MB RAM (72PIN)
- 540MB Hard Disk Drive (11ms)
- 1.44 Floppy Disk Drive
- VLB Windows Accelerator w/ 1MB
- 14" .28 Non-Int SVGA Monitor
- VLB Local Bus IDE Controller
- 2 Serial and 1 Parallel Ports
- 101 Enhanced Keyboard
- Serial Mouse

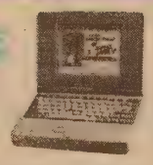
$1095

486DX2-66

- 66MHz 486DX2 Processor
- Vesa Local Bus Motherboard w/ 256K
- Vesa Local Bus
- Mini Tower Case and Power Supply
- 4MB RAM (72PIN)
- 540MB Hard Disk Drive (11ms)
- 1.44 Floppy Disk Drive
- VLB Windows Accelerator w/ 1MB
- 14" .28 Non-Int SVGA Monitor
- VLB Local Bus IDE Controller
- 2 Serial and 1 Parallel Ports
- 101 Enhanced Keyboard
- Serial Mouse

$895

NOTEBOOK SPECIALS!

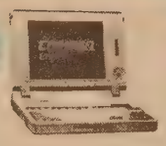


TOSHIBA

T4900
75MHz Intel Pentium
Integrated Multimedia Sound
10.4" Active 64K Color
810MB Hard Disk Drive
8MB RAM Expandable to 40MB
3 Year Int'l Warranty
$4750

T2150CDT
75MHz IntelDX4
Int. 2X CD-ROM & Sound Card
10.4" Active Matrix Display
510MB Hard Disk Drive
8MB RAM Expandable to 32MB
3 Year Int'l Warranty
$3695

T2150CDS
75MHz IntelDX4
Int. 2X CD-ROM & Sound Card
10.4" Dual Scan Color Display
510MB Hard Disk Drive
4MB RAM Expandable to 32MB
3 Year Int'l Warranty
$2895

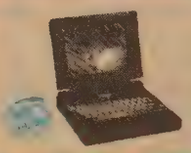


COMPAQ

4/75 CX
75MHz IntelDX4
Integrated Trackball
9.5" Active Matrix Display
510MB Hard Disk Drive
8MB RAM Expandable to 32MB
3 Year Int'l Warranty
$3495

4/50 CX
50MHz IntelDX2
Integrated Trackball
9.5" Active Matrix Display
340MB Hard Disk Drive
8MB RAM Expandable to 32MB
3 Year Int'l Warranty
CALL

4/75 C
75MHz IntelDX4
Integrated Trackball
9.5" Dual Scan Color Display
510MB Hard Disk Drive
8MB RAM Expandable to 32MB
3 Year Int'l Warranty
$2695



Sager Midern Multimedia Notebook

8500-75
75MHz Intel DX4
16KB Internal Cache
11.3" Dual Scan Color Display
340MB Hard Disk Drive
4MB RAM Expandable to 36MB
Built-In Audio System
2 Type II & 1 Type III PCMCIA
DOS 6.22 & Carrying Case
1 Year Warranty
$1995

9500-100
100MHz IntelDX4
16KB Internal Cache
10.3" Dual Scan Color Display
340MB Hard Disk Drive
4MB RAM Expandable to 36MB
Built-In Audio System
Built-In 2X CD ROM Drive
2 Type II & 1 Type III PCMCIA
DOS 6.22 & Carrying Case
1 Year Warranty
$2345

Multimedia

Acer 16 Bit Stereo Sound Card	$ 55
Sound Blaster 16	75
Sound Blaster 16 SCSI	125
Sound Blaster AWE32 Value	230
Sound Blaster AWE32 ASP	270
Acer Double Speed CD ROM	95
Sony / Panasonic 2X CD-ROM	115
Acer Quad Speed CD ROM	175
Mitsumi / TEAC 4X CD-ROM	189
Toshiba 4X CD ROM	195
NEC / Plextor 6X SCSI CD ROM	Call

Hard Drives

Samsung 540MB	$ 165
Conner 850MB	215
Conner 1.2 GB	315
Maxtor 540MB	170
Maxtor 850MB	220
Maxtor 1.2 GB	305
Western Digital 850MB	235
Western Digital 1.2GB	315

Video Cards

Trident 1MB 9440 VLB	$ 75
Trident 2MB PCI	135
ATI Mach 64 2MB DRAM	185
ATI Mach 64 2MB VRAM	275
Diamond Stealth 64 2MB DRAM	185
Diamond Stealth 64 2MB VRAM	275
Diamond Viper SE 2MB VRAM	Call
Matrox Impression+ 2MB VRAM	Call

Monitors

Shamrock 14" .28 NI	$ 215
Shamrock 15" .28 NI	315
Shamrock 17" .26 NI	575
Nanao F2-17	850
Nanao F2-17 EX	920
Nanao T2-17	Call
MAG DX-15F .26	385
MAG DX-17F .26	595
Sony 15 SF .25	445
Sony 17 SF .25	850
Sony 17 SE .25	Call

Network

16 Bit Ethernet Combo Card	$ 35
Intel EtherExpress 16 Coax	75
Novell Netware 3.12 5 Users	$ 535
Novell Netware 3.12 10 Users	1095
Novell Netware 3.12 25 Users	1695
Novell Netware 4.1 5 Users	595
Novell Netware 4.1 10 Users	1295
Novell Netware 4.1 25 Users	1895

Network Installation, Service and Maintenance Contract Available

Keyboards/Mouse

Marvel 101 Enhanced	$ 19
IBM Soft-Touch	32
Chicony 7001 Natural	59
Focus 2001 w/ Hard Cover	32
Focus 7000 w/ Trackball	35
Focus 8000 w/ Calculator	38
Focus 9000 Prog.,Calculator	49
High Resolution Serial Mouse	6
Z-Nix Serial Mouse	8
Microsoft Ergonomic Serial Mouse	29

Printers

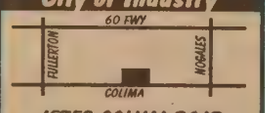
Epson Stylus 400	$195
Epson Stylus Color 720 DPI	495
Epson Action Laser 1000	375
Cannon BJ-200e	175
Cannon BJC-600e	445
HP Deskjet 540	
HP Deskjet 660C (New)	
HP LaserJet 5P (New)	
HP LaserJet 4 Plus	

Call for Best HP Price in Town

Miscellaneous

Colorado DJ-20 250MB Tape B/U	$ 125
Colorado DJ-30 350MB Tape B/U	155
Conner Tapestor 420MB	175
Smartlink 14.4 Int. Fax/Modem	65
Boca Sound Expression 16 w/ *16 Bit MCD Sound Card, 14.4 Fax/Voice/Modem and Speaker Phone*	175
Teac 1.44MB Floppy Drive	35

City of Industry



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TEL: (818) 913-6555
FAX: (818) 913-5270

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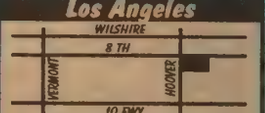

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NETWORKING • BY PETER JOHN HARRISON

Connecting To Your LAN From Afar

Providing High-Speed Dial-Up Access To Your LAN

For many LANs and LAN administrators, "local" area networking is becoming less "local" these days. Sometimes it seems that everyone in the company, from the janitor to the president, wants to be able to access network resources from locations that aren't "local" at all.

Telecommuting is coming of age. By the end of the decade more than 20% of the work force is expected to spend one day or more a week using some form of telecommuting solution, and network administrators have no choice but to find solutions that meet the remote access needs of their LAN users. Add to that the growing number of on-the-go salespeople doing business in a world where electronic communication is a must, even when they're stuck in some hotel room in Memphis, and you'll understand why it's not a question of whether or not to provide dial-up access to the LAN, but how and when.

Unfortunately, traditional modem technology doesn't begin to approach the speed and capacity of local area networking technology. A standard 10Mbit per second Ethernet connection, for example, has the capability to move one thousand times as much data as a standard 14.4Kbits per second (bps) modem. Even moving up to a fast 28.8Kbps data modem only marginally improves transmission speeds, from 1/700th the speed available to the LAN to 2/700ths. To be honest, there really isn't any economical solution that can keep up with the full speed of a direct connection to the LAN, but that doesn't mean you have to get stuck with dial-up modem speeds either.

One of the technologies LAN administrators are starting to take a close look at is Integrated Services Digital Network, or ISDN. ISDN is a new approach to providing telephone service. Conventional telephone service, called POTS (short for Plain Old Telephone Service), transmits an "analog" signal that emulates the vibrations the human ear hears as sound. Most of the telephones you use employ POTS, a technology that was developed fifty years ago, when "high-tech" electronics employed vacuum tubes and mechanical switches.

What modems do is translate digital information from your computer into an audible, analog signal, then transmit that signal using POTS technology that was never designed to carry a high-speed data stream. ISDN technology, on the other hand, is a product of the computer age that is designed to carry digital information. A single ISDN "Basic Rate Interface" (BRI) line has three separate data channels with a combined data capacity of either 128 or 140Kbps, ten times the carrying capacity of a POTS line with a 14.4Kbps modem.

> With ISDN, the **difference** between a direct **connection** to the LAN and **dial-up** access isn't very noticeable.

Each ISDN BRI has three different channels: two 56 or 64Kbps "B" channels over which you can carry two separate voice or data calls, and a 16Kbps "D" channel that can be configured to send and receive X.25 packet data. (The exact speed of the "B" channels, 56 or 64Kbps, depends on the capabilities of the phone company switching equipment being used.) That's a lot of capacity, especially when you consider that the monthly cost of an ISDN line is just $25 (plus usage).

Until recently, setting up an ISDN line was an expensive and technically complicated task, but over the last year or two prices for ISDN equipment and service have dropped considerably. The new, lower prices have created a demand for easier to install "end-user" ISDN products, and the market is responding with easier to configure and connect hardware and software products.

Recently I set up a dial-in hub that used ISDN to provide access to a small Windows

486 Soundbook

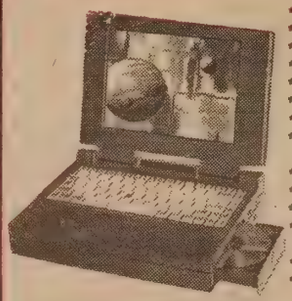
4 MB,340 MB	9.5" Mono 64 grey	Dual Scan 10.3" Color	Active TFT 9.5" Color
486DX2-66	$1360	$1770	$2310
486DX4-100	$1440	$1850	$2390

Pentium Soundbook

8 MB,340 MB	Dual Scan 10.3" Color	Active TFT 10.2" Color
Pentium-75	$2190	$2860
Pentium-90	$2290	$2960
Pentium-100	$2390	$3060

* Intel CPU
* **128K cache (486)**
* **256K cache (Pentium)**
* Max.36 MB RAM
* 1.44 MB floppy drive
* **PCMCIA Type 4 slot**
* **Removable hard drive**
* **16-bit sound card, speaker and microphone**
* 32-bit graphic accelerator
* 1 MB video memory
* Big 25mm trackball
* **2 NiMH battery w/hot swap**
* 1 16550 serial port (486)
* 2 16550 serial port (Pentium)
* AC adapter & carrying bag

Multimedia Superbook



* Intel CPU
* **Up to 1 MB Cache**
* **RAM upgradable to 64 MB**
* 1.44 MB floppy drive
* **PCMCIA Type 3 slot**
* **Removable hard drive**
* Up to 810 MB disk space
* **16-bit sound card, speaker and microphone**
* 32-bit graphic accelerator
* 1 MB video memory
* Track ponit device
* 2 16550 Serial, parallel, KB monitor, docking station con.
* Rechargeable NiMH battery
* AC adapter & carrying bag

Built-in 2X CD-ROM Drive

4 MB,340 MB	Dual Scan 10.3" Color	Active TFT 9.5" Color
486DX2-66	$2080	$2605
486DX4-100	$2159	$2684

486 Audiobook

4 MB,340 MB	9.5" Mono 32 grey	Dual Scan 10.3" Color	Active TFT 9.5" Color
486DX2-66	$1259	$1687	$2281
486DX4-100	$1348	$1766	$2360

Pentium Audiobook

8 MB,340 MB	Dual Scan 10.4" Color	Active TFT 10.4" Color
Pentium-75	$2410	$3445
Pentium-90	$2510	$3545

* Intel CPU
* **RAM up to 20 MB (486)**
* **RAM up to 40 MB (Pentium)**
* 1.44 MB floppy drive
* **PCMCIA Type 3 slot**
* **Built-in sound card, speaker and microphone**
* 32-bit graphic accelerator
* 1 MB video memory
* Built-in 16mm trackball
* LCD status display
* Advanced power managemnt
* Serial, parallel, kb, monitor, and docking station connector
* Rechargable NiMH battery
* AC adapter & carrying bag

+ Mono does not include sound features

486 2X Multimedia

486DX4-100	$1239
486DX2-66	$1799

- ☑ Intel pentium-overdrive ready
- ☑ CPU cooling fan w/heatsink
- ☑ 256K cache
- ☑ **8 MB RAM (128MB max.)**
- ☑ 1.44 MB floppy drive
- ☑ **540 MB hard drive**
- ☑ 32-bit Enchanced IDE HD controller
- ☑ 32-bit SVGA graphic accelerator w/1 MB
- ☑ **14" SVGA NI green monitor, .28dp**
- ☑ 2 serial, parallel, & game ports
- ☑ Enchanced 101 keyboard
- ☑ Mini tower case w/230W
- ☑ Microsoft compatible mouse
- ☑ **16-bit Sound blaster compatible card**
- ☑ **Double speed (2X) CD-ROM drive**
- ☑ **40W power speakers**

Pentium 4X Multimedia

Pentium-100	$2029
Pentium-90	$1919
Pentium-75	$1819

- ☑ CPU cooling fan w/heatsink
- ☑ 256K cache
- ☑ **8 MB RAM (128MB max.)**
- ☑ 1.44 MB floppy drive
- ☑ **850 MB hard drive**
- ☑ PCI Enchanced IDE HD controller
- ☑ **ATI Mach 64 or Stealth 64 w/2 MB** COOL
- ☑ **15" 1280 X 1024 NI monitor, .28dp**
- ☑ **Flat screen, Digital control, Low radiation**
- ☑ 2 serial, parallel, & game ports
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for Workgroups LAN, and I was surprised at how easy it was to install. The "hub" I set up was a Microsoft Windows NT Advanced Server running "Remote Access Server" (RAS), which comes with the Windows NT package. Also included with Windows NT were software drivers for the internal ISDN adapter that had been selected for the project, and a single-line DigiBoard PC IMAC card that can support two ISDN data calls, one on each of the B channels. (DigiBoard also makes two- and four-line cards.) Setting up NT RAS is very easy. You open the "Network" control panel, pick the driver for the card (or modem) you are using, and NT walks you through the process of installing the driver software and configuring RAS.

Doing an ISDN configuration is a little different from the standard modem-based installation for RAS, because ISDN equipment needs more information about the telephone line you're connected to. You have to put in one or two "Service Profile Identifiers" (SPIDs), your phone numbers, and even tell RAS what kind of switching system the telephone company is using to service your line. The phone company provides you with all the information you need when they install your line.

Ordering an ISDN phone line is a little different from ordering a regular phone, too. Just as you need to configure the Windows NT ISDN driver so that it knows how to work with the telephone company's switching equipment, the telephone company needs to know which ISDN adapters you plan on using when you order your phone line.

Setting up the Windows for Workgroups client for RAS access was fairly easy too. For the client side of the connection I installed a DigiBoard DataFire adapter, which has capabilities similar to the PC IMAC card. ISDN RAS access for Windows for Workgroups is relatively new for the DataFire, and I had to download some beta test driver software directly from DigiBoard; once I had the drivers I walked through the two-step installation process, running the DigiBoard installation program bundled with the drivers, then configuring RAS for Windows for Workgroups, but everything went smoothly.

I did discover something during the driver installation process that I didn't like, though, and that was that I could only configure one of the DataFire's two B channels, meaning I could only transmit data at 56Kbps. Whether this is a limitation of the DataFire card or Microsoft's RAS software I'm not sure, but I expect that either DigiBoard or Microsoft will implement "multilink" capabilities for ISDN as demand for more robust ISDN networking connections builds.

And then it was time to test. At first it didn't work, and I had to call DigiBoard technical support to help me troubleshoot the connection, but within a few minutes we had the problem figured out—I had typed the twelve-digit SPID number for the DataFire card in wrong. Once that was fixed, I had it! 56Kbps access to the LAN over ISDN!

One of the complaints I have about using analog modems to dial into a LAN is that even the modest LAN activity seems to just crawl along. With ISDN, the difference between a direct connection to the LAN and dial-up access isn't very noticeable, unless you find yourself transferring large data files or loading applications across the link.

Even so, with additional gains in modem speed nowhere in the foreseeable future, ISDN is probably your best bet for providing your users with high-speed dial-up access to your LAN. Who knows? With ISDN prices down to half of what they were just one year ago, providing your users with their own dial-up access to your LAN's digital data highway may not be such a wild and crazy idea after all. ■

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RESOURCES:

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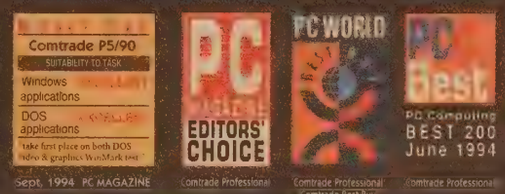

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Microsoft Word For Windows 6 vs. Safeware Computer Insurance

The small-office operator is at a double disadvantage. The business is usually run on a financial and energetic shoestring, so there is no time or steam to fight with a large company if they do not deliver what they have promised. At the same time, the small operator is a small market to the big company. If in the end you say, "OK, I'm taking my business elsewhere," just how long do they cry in the boardroom?

The long-term answer is cooperative purchasing by small businesses. In the meantime, read about other people's experiences.

Part of the critic's job is to deliver kind and unkind words about products. I try to modify this in practice. If a small company makes a piece of junk, I just ignore it. No one needs to spill ink panning some little person's attempt. If a big company gives bad service or delivers junk to the user, the situation is different. It is part of my job to report my experience with them, because the reader may be considering their products. If anyone, big or small, has done well, it should also be told.

This month, I look at my experience with Safeware, the insurance company that specializes in coverage for computers, and with Microsoft. In both cases I relied on them, and I got various results. Safeware got very good marks. Microsoft got a much less complimentary evaluation.

YMMV, as they say on the Net: "Your mileage may vary." These are my experiences; they may not be yours.

Oh, No, Mr. Bill...

In writing this review, Microsoft Word for Windows 6 (6.0c to be exact) crashed several times. In fact it has crashed at least ten times in the last few weeks.

Symptom-set number one: I start to load Word for Windows. It stops part way through the load and announces that there is not enough room. Since there are 8MB in there, it seems unreasonable that a couple of dinky little utilities should crowd out the mighty Word. I mutter, but unload them. In an empty Windows I try to reload Word. "Not enough memory." Huh?

As a last try, I remove all the programs in my startup folder and reboot. Now Windows is empty and has been since it came up. Still the system announces there is no room for Word.

Symptom-set number two: I am typing along in Microsoft Word for Windows 6.0c, and suddenly it is gone. No "general protection fault." In fact, no Windows. There is only a black screen. Sometimes there is a message that says "unable to load Command.Com." Sometimes there is only a cursor flashing on a lonely screen. Control-Alt-Delete doesn't work. Nothing works, except turning off the computer. I am curious why Microsoft has written a program that can collapse itself right past the built-in safeguards which stop other programs from crashing Windows.

I don't have any answer. Like many other users, I get products to try out, to use, not to vivisect. When one behaves badly, I do the same thing as most users—I call the experts.

So I telephoned Microsoft. Unlimited support is free, says the answering robot—but that is a misnomer. The call is not free. For me it costs 27 cents a minute to call up to Washington. I get to listen to Radio Microsoft while I wait. There's music, and a pleasant-voiced woman who tells you that "There are five calls waiting in the Word for Windows group. The longest wait there is eight minutes." My calls took around half an hour each.

When I did get in, I was *very* impressed with the technicians I spoke with. They were patient and extremely competent as teachers. They talked me through every step in a detailed process to clean up some files. The problem is that, while they were competent and helpful, what they suggested did not solve all the problems. They did give me a recipe for convincing Windows that it could load Word 6. I needed to erase some of the files that Word uses to set itself up. The "normal" template (NORMAL.DOT) had to go. So did a file called WINWORD.OPT.

Then I needed to go into the file manager and do a wholesale cleanup of .TMP files.

Scratching my head, wondering why I

I speculate that this version of Word for Windows got **out the door** before testing was completed. So **we in small offices** across the country **end up** being the final beta-testers, and **swearers and cursers.**

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needed to do this with a product from a major company, I did it. And Word for Windows (6.0c) worked for a few days. Then it decided again that it did not have enough memory to load.

Out of curiosity I called Microsoft again. And I got the same prescription. It was so close to an identical wording that I believe it exists on paper somewhere. And that makes me guess that I am not the only person to have this problem.

I called a third time, this time specifically about the mysterious crashes. Again a competent and pleasant technician had me run CHKDSK /F and then told me to clean out the .TMP files scattered throughout my system. It was all because I had no directory called "temp" to receive them. Poor Word for Windows—stranded, unable to create a directory. Since it couldn't it had dropped little TMP files in various other directories. And when the system crashed, it left lost clusters all over. Those fragments confused it when it was reinvoked.

It has now been almost twenty hours since Word for Windows—that's version 6.0c, Bill; I know you'll want to get right on it—crashed the last time. Maybe it is fixed. But my file manager tells me that the temp directory has six temp files in it that I did not put there. I hope Word for Windows knows what it is doing. It may not, though, because I do run other programs. "It could be that other program," one of the technicians had confided. "It doesn't like After Dark for Windows." I'm not running After Dark, but I must say I am not reassured.

Now some pure speculation, and some speculative extrapolation:

Since I have done a little work with object-oriented languages, this class of problem gives me the willies. It is the sort of trouble that arises when an object-oriented system is built by people in a desperate hurry. Each object in an OOS is like a separate program, with its own data, memory, and procedures. The objects interact with each other much like programs in a multi-program environment.

When they interact well, the positive results are like the synergy of a symphony: much more than the sum of the parts. When they interact badly, however, they crash in entertaining and bizarre ways.

Object-oriented systems are beloved of large corporations because different departments can work on different objects. Then you can pour them all into one box, and voila—a software product. You can even reuse objects in other programs. Lovely stuff, with economies of scale and all that. It would be especially appealing to a corporation like Microsoft, which sells a version of C++, the object-oriented language of choice.

The bad news is that object-oriented systems need to be tested for all those entertaining-and-bizarre crash potentialities. It is exactly the problem written of two months ago in this same column, when discussing file conversions. The number of possible problems goes up with the square of the number of objects.

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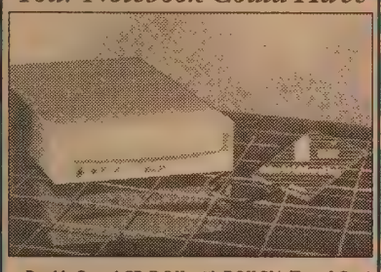

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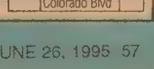

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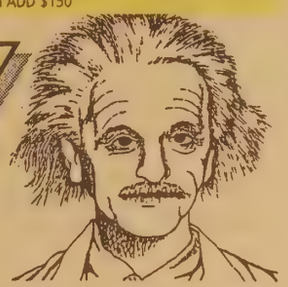

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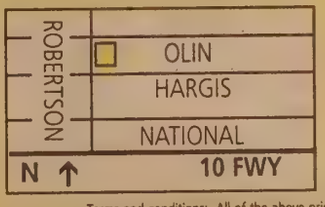

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So I speculate that this version of Word for Windows got out the door before that testing was completed. There were repairs and patches, which is why we are using 6.0c instead of 6.0a or b. But perhaps they missed a few bugs. So we in small offices across the country end up being the final beta-testers, and swearers and cursers.

The bottom line is this: The rest of my office is staying with rock-solid Word for Windows 2. I hope the next version of WFW works better. And I am quite doubtful about how well Windows 95 will work, if Microsoft let its flagship word processor out in this condition.

Grade for Microsoft on this one: C-. It avoided flunking only because those techs were *so* patient.

Safeware And Me: It Was A Dark And Stormy Night

...such as we had this year in California. The winds bearing rain came from the West and blew almost horizontal. They carried rain up and under the roof of our San Francisco cottage. More water came in than I have ever seen before. I was surprised and horrified to see all the places it had gotten to. I was doubly horrified when I tried to turn on my computer. One of the leaks had fallen into the monitor.

It made a weak crunching sound, and was no more. As a computer-writer, I was out of business.

For the last few years, I have, every April, sent money off to Safeware Computer Insurance. I do this because my other insurance will not cover property used for business. I always wondered if I was just pouring money down the drain.

We all have interesting experiences with insurance companies. I will not soon forget the triumph in the voice of a claims representative, as she said her client was not responsible for some damage I had suffered. She was winning a game; the opponent was me. My neighbor had to hire a lawyer to get her car insurance company to pay up. You know the story—it is what has moved Californians to pass insurance reform initiatives.

I was apprehensive, therefore, when I needed to make a claim with Safeware. My only comfort was that I would get to report to the readers of this column what happened to me. I was certainly expecting an unpleasant experience.

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Calling Safeware, I was surprised to find that Candy, the representative, was agreeable when I explained the roof-leak. "Yep," she said, "It's covered. Fifty dollars deductible."

I explained that I needed to get a new monitor and get back to work immediately. She seemed sympathetic. "OK," she said, "Keep the old monitor for at least ninety days. I'll get the papers to you."

After calling a couple of places and discovering the same price for a replacement monitor, I went down and bought one. I was now out on a limb. I had spent money for the new monitor on the unwritten say-so of the representative. Not a big item for a corporation, but it is a bite out of the budget of a small business.

The promised forms arrived. I was pleased to see that if the claim was for less than five hundred dollars, all I had to do was fill out a few lines and return the receipt for the monitor to Safeware. I did so. I was pleased with the directness of the interaction so far.

About two weeks later, my pleasure took a dip. I got a form asking for proof of ownership of the old monitor, several written estimates for the replacement costs, a technician's diagnosis, and a police report. "Uh, oh," I thought, "here we go," and spent a few moments in thought about the visit to the police station ("Just what did this leak look like?" asks the detective).

I wrote a one-page letter explaining that there was no police report and such, and sent it off while mumbling about the perfidy of insurance companies.

I waited. Two weeks later, the check came. Even here the pleasant surprises do not end. I compared my check with my claim, and found that Safeware had overpaid me a bit. I was curious, so I called the customer representative back. She looked up the record. "You're right," she said. "But it was our mistake. Thanks for being honest, and keep it."

My evaluation: Safeware gets an A. They can be reached at 1-800-848-3469.

What Do You Mean, Weird?

Sometime in the next few months, the SO/HO column will do a story about the most *unusual* small offices among our readership. So if you have a fascinating business or a truly interesting environment, drop me some email (*birrell@well.com*). You have to at least *use* computers. Decision of the judge is final, and notoriously arbitrary. ■

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Letters *continued from page 32*

Mitch Gordon replies:

You fellows are absolutely right. My mistake. The sidebar about multitasking in the article is wrong. Disk formatting, generating print jobs in a word processor, and downloading files from a BBS will all work in the background in Windows. The principal advantages of true multitasking operating systems (such as OS/2, NT, and upcoming Mac System 8 and Win95) for the typical user have to do with reliability (an application crash doesn't bring down the whole system) and behind-the-scenes performance enhancements. As Darin puts it, these systems "will do the same things better, perhaps more smoothly."

My apologies for mistaken information in the sidebar. I stand by the rest of the article, which is intended for the novice user who may not realize that multiple applications can be open at the same time in Windows, and that this can be a great productivity boon.

The computer should be judged on how well it works, not the technology that underlies it.

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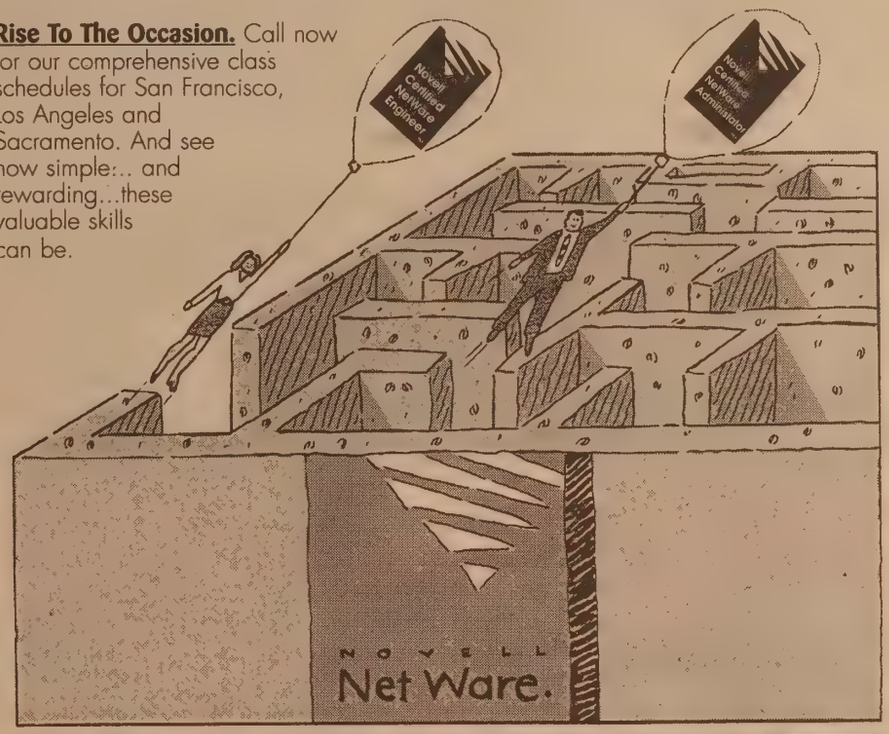

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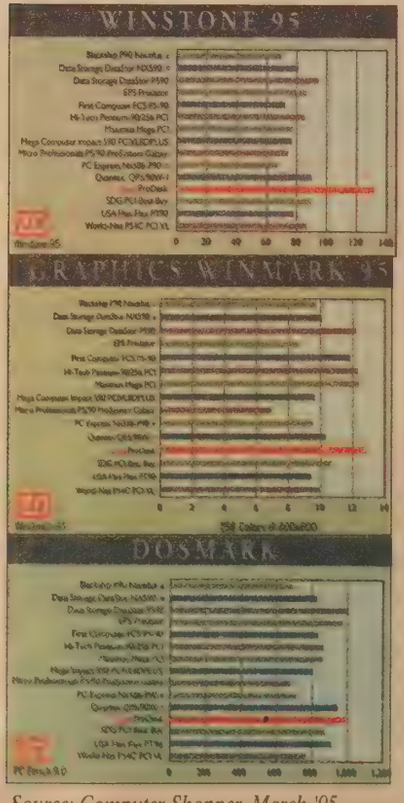

Source: Computer Shopper, March '95

IMAGINE128 MEDIA
Super Media Station

- **32MB** RAM, upgr. to 128MB 256K cache
- **1.2GB** Enhanced IDE HD
- Award-winning 17" MAG **Digital Flatscreen**–Energy Star
- #9 Imagine 128-bit graphic engine, 4MB VRAM, 1280x1280, world's fastest video
- **4X** CD-ROM drive 600KB/sec
- **Sound Blaster AWE-32 DSP**
- Voice recognition, mic, 2 speakers
- Microsoft CD bundle
- **130-key** programmable keyboard
- 7-bay tower, dual fans
- 1.44 FDD, Hi-res mouse, Hi-speed I/O

Intel Triton Chipset Pentium® Processor

P-100 Mhz	*$3,799*
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P-133 Mhz	*$4,199*

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NEW! REALMAGIC MEDIA
Super MPEG Mania

- **8MB** RAM, upgr. to 128MB
- 256K fast write-back cache
- **850MB** Enhanced IDE HD
- 15" MAG **Digital Flatscreen**–Energy Star low radiation, 1280x1024
- Royal-RAVE **Video 2MB** RAM, MPEG full-motion playback controller
- **4X** CD-ROM drive 600KB/sec
- Voice recognition software & mic
- **Sound Blaster AWE-32, DSP**
- **MPEG CD title**
- Microsoft CD bundle
- 7-bay tower, 101-keyboard
- 1.44 FDD, Hi-res mouse, 1P-2S-1G

Intel Pentium® Processor

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P-90 Mhz	*$2,649*
P-100 Mhz	*$2,749*
P-120 Mhz	*$2,949*
P-133 Mhz	*$3,149*

17" flatscreen upgrade ..... add *$325*

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Powered Windows User

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- ATI mach64 **PCI 2MB** RAM, *PC Magazine Editor's Choice*
- **4X** CD-ROM drive 600KB/sec
- **MPEG & Video CD Software**
- Orchid Soundwave 32 **Digital Signal Processing 32-voice** soundcard, 2 premium speakers
- Voice recognition and microphone
- Microsoft CD bundle
- 1.44 & 1.2 disk drives
- **130-key** programmable keyboard
- 7-bay tower, dual fans
- Hi-speed I/O, Hi-res mouse

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intel inside
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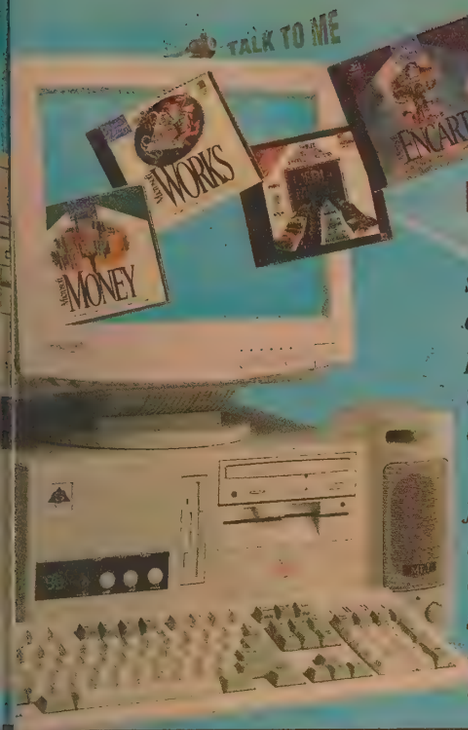

TOP Rated Performance

"... *the Royal system screams ahead of the pack on the Disk WinMark to grab an eye-opening overall score of 131 on Winstone, almost 6 percent faster than our Dell benchmark system's score of 124 at 16MB of RAM. Royal's superior performance carries over into the Graphics Winmark...*

HARD TO RELEASE

COMPUTER SHOPPER

In DOS, the Royal also excelled... The Royal Makes a good case for going the extra mile and getting at least 12MB of RAM in your 90MHz Pentium. The Royal is an excellent system in this configuration. Unless one of your other choices in the group can compare in price at the same RAM level, ***it's hard to refuse.***"

Source: Computer Shopper, March '95

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Zip through screen redraws with champion speeds. The amazing new ATI mach64 2MB RAM video card, with ATI's newest \64-bit processor, achieves the PC Magazine Editor's Choice among 54 video boards tested.

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P-120 Mhz	*$2,299*
P-133 Mhz	*$2,499*
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1.2GB upgrade	add *$245*
16-bit Sound Multimedia	add *$95*

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- 256K fast write-back cache
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- **4X** CD-ROM drive 600KB/sec
- **MPEG & Video CD Software**
- Voice recognition software & mic
- **Sound Blaster AWE-32, DSP**
- Microsoft CD bundle
- 7-bay tower, 101-keyboard
- 1.44 FDD, Hi-res mouse, Hi speed I/o

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- ATI mach64 Video **2MB** RAM, *PC Magazine Editor's Choice*
- **4X** CD-ROM drive 600KB/sec
- **MPEG & Video CD Software**
- 1.44 disk drive
- 7-bay tower, 101-keyboard
- Hi-res mouse, 2S-1P-1G

Intel Pentium® Processor

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P-133 Mhz	*$2,899*
16-bit Sound Multimedia	add *$95*

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- ATI mach64 Video **2MB** RAM, *PC Magazine Editor's Choice*
- **4X** CD-ROM drive 600KB/sec
- **MPEG & Video CD Software**
- Orchid Soundwave 32, digital signal processing **32-voices,** sound card, 2 speakers
- Voice recognition software and mic.
- Microsoft CD bundle
- 7-bay tower, 101-keyboard, 2S-1P-1G
- 1.44 disk drive, hi-res mouse

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Realizable Fantasies *continued from page 30*

2. To volunteers who respond, outline the following:

Offer electronic copies of

(a) leaflets that volunteers can post and distribute at work and elsewhere,

(b) model letters that volunteers can send to folks they know—called "Dear friend cards" in traditional campaign operations,

(c) model letters that a volunteer can send, "As a concerned citizen," to strangers,

(d) talking points and facts for letters to the editors of daily and weekly newspapers and to community organizations' newsletter editors, and

(e) talking points and facts for calls to local radio talk shows and community meetings.

(Hidden gotchas: The facts need to be accurate and complete. Effective letters are not easy to write.)

Ask each volunteer

(a) how many leaflets they might be willing to print with their computer and distribute,

(b) how many letters they might be willing to send if they had the addresses, and

(c) how many talk shows they would be willing to call if they had phone numbers and schedules.

Don't be shy in asking!

3. Coordinate the volunteers—preferably via a listserv open to all of them. Then, they can be part of a joint effort rather than treated as obedient drones. They can also share ideas, self coordinate their efforts and reenergize one another. (Advocacy ain't easy.)

There are numerous other things that can be coordinated and facilitated via the nets—researching issues and opponents, maintaining and sharing databases, organizing campaign events, coordinating get-out-the-vote phone banks and car shuttles to polling places, etc.

Most importantly, note that this requires essentially NO campaign treasury; volunteers personally fund their own mailings and talk-show phone calls.

Note that volunteers need not reside in or even geographically near the target district. It's completely appropriate for "outsiders" to be involved in "local" campaigns—they will only get involved if, in fact, the "local" results are likely to impact them. (For better or worse, that's the rationale for permitting out-of-district donations to "local" races.)

Also note that net-based political action only works for advocacy that can stand the bright spotlight of global public scrutiny and debate in the net's unfettered environment. The net's almost useless for the secret deals of politics' traditional smoke-filled rooms.

About Those Letters

This is somewhat akin to the Letters of Correspondence that played a crucial part in that other American revolution. This time, however, the power of each writer is greatly magnified by their word processor, mail-merge software, and fast printers. But where do they send 'em?

For the "Dear friend" letters, provide the vol-

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420 Mb	$159	540 Mb	$199
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Viewsonic 17GS .27mm, 1280x1024 Flat, TCO $775
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Viewsonic 21PS .25mm, 1280x1024 77hz $1699

Other Manufacturers
Sony 15sf .25, Trinitron Tube, 1024x768@76hz $419
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- ✓ Cirrus Logic PCI Video Card w/1MB
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- ✓ 101 Key Keyboard & 3 Button Serial Mouse
- ✓ MS DOS 6.22 & Windows for Workgroups 3.11

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- ✓ Cirrus Logic PCI Video Card w/1MB
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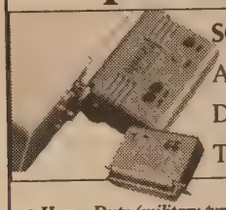

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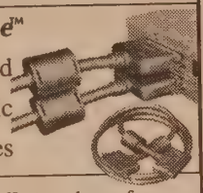

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Realizable Fantasies *continued...*

unteers with the postal ZIP codes that cover the target voting district and its adjacent areas, and suggest that they pull every address within those ZIP codes, from their little black books—which hopefully, they have on their computer.

Offer word processing and mail-merge freeware for downloading by the volunteers. Hold their hands as needed.

For the "As a concerned citizen" letters, ask how many each volunteer is willing to print out on their computer and mail. Then do an *n*th-name selection from your database of likely voters, that you obtained from the Registrar of Voters, and provide the list to the volunteer. (There is *much* more that can be done in this area, but I'm already wildly over-length.)

For letters to newspapers, furnish names, guidance as to what kinds of letters are most likely to be published, and try to coordinate who is addressing which points, when.

Do the same thing for talk shows.

What Am I Doing?

It's easy to talk the talk, to write this in second person—what "you" can do. But I'm also walking the walk.

For details, get online and subscribe to my free GovAccess listserv by emailing "subscribe GovAccess YourEmailAddress" as a message to *majordomo@well.com*; the subject line is ignored. Note: This is a one-man operation, with limited resources. So I guess those readers who can't or won't travel the information highways will just have to saddle up their horses and do what they can the old-fashioned way.

My plan is to collect the tools—freeware, databases, and pointers thereto—that will allow diligent citizens to do what I've outlined. The tools will be available without restriction by me—including to those with whom I most ardently disagree.

* * * * *

Net-based ***political action*** only works for advocacy that can stand the bright spotlight of ***global public scrutiny*** and debate in the net's ***unfettered environment.***

Ya see, I believe that a well-informed public, with adequate access to information on which to base sound decisions, and the political resources to force their implementation, will—in fact—make fair decisions. It's a dangerous belief, and I'm not-at-all sure it's valid. But it's the foundation of democracy—and if it's wrong, then the only alternative is an authoritarian, hopefully benevolent dictatorship.

It's time for "we, the People," to take back our sovereignty. The folks we've loaned it to have been abusing it and some even think that *they* are the sovereigns. We rejected that notion, two centuries ago.

Make waves. Netsurf for freedom! Now!! ■

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- 1 Parallel & 2 Serial ports
- 14" CTX Low Radiation Color Monitor
- Honeywell 101-key Keyboard
- MS-DOS 6.22
- Windows for Workgroup 3.11
- Microsoft Mouse 2.0
- 12 Popular CD Titles
- One Year Warranty

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Pentium 75	$1898
Pentium 90	$1989
Pentium 100	$2099

- 256k External Cache
- 8MB RAM expandable to 128MB
- 1.44" 3.5" Diskette Drive
- 1GB 10ms Fast ATA-2 IDE Drive
- Quad-Speed CD-ROM Drive
- Sound Blaster Vibra 16 Card with Speakers
- Diamond Stealth 64 PCI Video Card
- 1 Parallel & 2 Serial ports
- 15" CTX Low Radiation Color Monitor
- Honeywell 101-key Keyboard
- MS-DOS 6.22
- Windows for Workgroup 3.11
- Microsoft Mouse 2.0
- 8 Popular CD Titles
- One Year Warranty

Vantage Power

Pentium 90	$2668
Pentium 100	$2778
Pentium 120	$3137

- 256k Pipeline Burst External Cache
- 16MB EDO RAM expandable to 128MB
- 1.44" 3.5" Diskette Drive
- 1.2GB 10ms Fast ATA-2 IDE Drive
- Quad-Speed CD-ROM Drive
- Sound Blaster 16 Vibra Card with Speakers
- Diamond Stealth 64 PCI Video Card
- 1 Parallel & 2 Serial ports
- 17" CTX Low Radiation Color Monitor
- Honeywell 101-key Keyboard
- MS-DOS 6.22
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INTERNET • BY JOHN S. QUARTERMAN AND SMOOT CARL-MITCHELL

Using Mailing Lists

When You Need To Talk To A Lot Of People At Once

Mailing lists are one way a lot of Matrix users keep up with each other on a shared topic. Notice we say "the Matrix" and not "the Internet." Using a mailing list only requires access to electronic mail, something a lot of users outside the Internet have. Mailing lists are a pretty simple extension to traditional electronic mail.

Mailing lists are an effective means of online group communication. However, using them properly is important. Abusing a mailing list, whether intentionally or through ignorance, diminishes its value. In this article we will explain briefly how mailing lists work and some pointers on how to use them properly.

How Mailing Lists Work

The owner of a mailing list gives the list a name, relative to a computer in the Matrix. Let's call our hypothetical list *bar@foo.com*. The mail software within the domain *foo.com* understands that any messages sent to the above mail address will get resent to every member of the list.

By analogy, you can think of posting a message to the list as sending an office memo to an assistant and asking the assistant to copy the memo to all the people in the department. The assistant gets the department directory and sends a copy of the memo to everyone in the department. In a mailing list all the work of copying the original message and distributing it is handled automatically by the mailing software.

The owner of the list maintains the list membership, just as the office assistant would. There is software which can handle this automatically or the list owner can do it manually. Once subscribers are on the list, no more manual assistance is normally needed. Software automatically distributes mail sent to the list.

When you receive a message from a mailing list, the message looks like any other electronic mail message. Here is what the mail message might look like:

From: jill@aol.com
To: bar@foo.com
Reply-to: bar@foo.com
Subject: new to this list
Hi, I'm new to this list and I'd like to ask a few questions...

Notice that Jill sent the message to the address of the mailing list, not to the address of the list owner, and especially not to each specific address of each list participant. She also supplied the To: and Subject: headers. She may have supplied the From: header, or more likely her mail program supplied it for her.

She might have put in a Reply-To: header, but this one was probably added by the list management software. This header indicates where replies to the message should be sent. Some mail software understands the Reply-to headers and uses the address found there when you compose a reply. This header is not always present, and some people make the mistake of only replying to the sender of the message. If you want to send a private message to Jill, replying just to her is appropriate. But if you want all the members of the list to see the reply, then be sure and send the reply to *bar@foo.com*, and preferably *only* to *bar@foo.com*. You don't want to also send to Jill, since she is very likely a member of the list. Replying to *jill@aol.com* and *bar@foo.com* will result in Jill getting two copies of your reply. Why is this the case? Because each address in your reply is processed separately.

Using the office memo analogy again, it is just as if you got a memo from Jill and wrote a reply memo and made two copies of it. The first reply you send directly to Jill. The other copy

The main idea **on a mailing list is to keep replies short and to the point, with only as much identified context as a reader needs to follow the conversation thread.**

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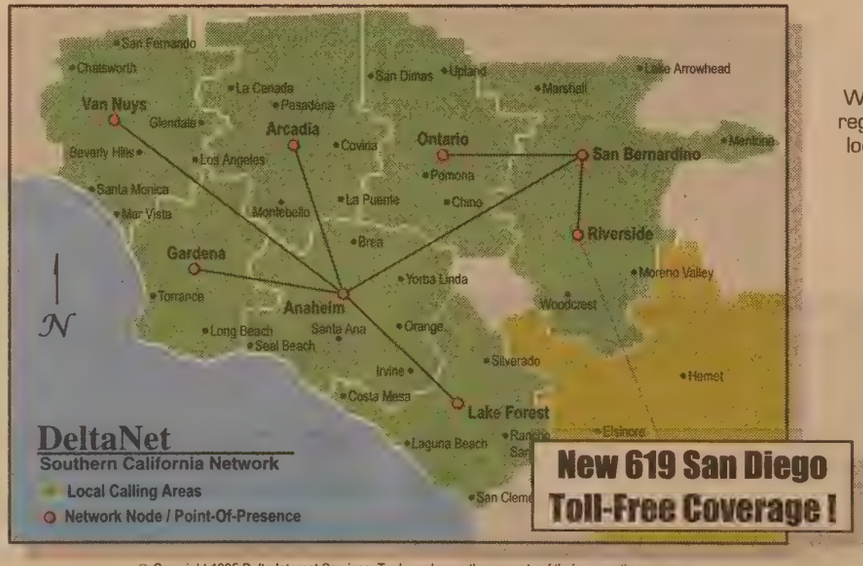

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DELTA INTERNET SERVICES

you send to your assistant. The assistant makes copies of the message and sends it to all members of the list including Jill. Meanwhile the copy sent directly to Jill arrives independently of the copy of the message sent to the list. The same general process happens when a message is sent to the electronic list, but much faster.

A good rule to follow when you get a message from a mailing list is to send all replies (except private ones) to the list address. You may have to fiddle with your mail software to get it to do the right thing, or you may have to manually address the message to the right place.

Another point to remember is that a reply to a message is another independent message. As far as the mail system is concerned, it is not connected to the original message in any way. It is treated the same way as a fresh message to the list.

The list management software doesn't care how messages sent to the list are related, but human subscribers to the list do care. Always include a Subject: header, and keep the same Subject: header (with Re: added) when replying to a message, unless you're actually changing the subject. Always include context from the original message in the body of your reply; any list member may have read hundreds of other messages from other people, in other lists, and on other subjects, between the previous message and your reply. It's only polite to help the members remember. You should also add a tag line telling who wrote the original context. Here is an example:

From: smoot@tic.com
To: bar@foo.com
Subject: Re: new to the list
>jill@aol.com said:
>Hi,
>I'm new to this list and I'd like to ask a few >questions...
Sure. We'd be happy to help...

The right angle braces (>) mark the quoted part of the message. This is the common electronic mail convention. Please use it. Some people new to mail instead indent the *new* part of their message. Please don't; it's confusing and hard to read.

When you add the context, keep it as short as possible. Some mail programs have the bad habit of attaching the original message (including headers) to any reply. This is not a good thing, since it only takes a few reply iterations for a message to become full of usually useless information. The main idea on a mailing list is

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INTERNET

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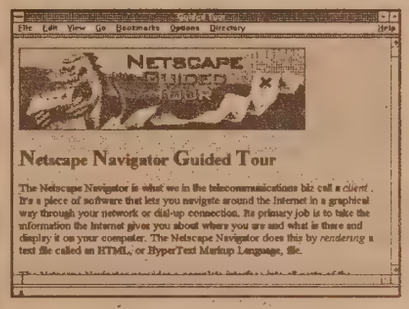
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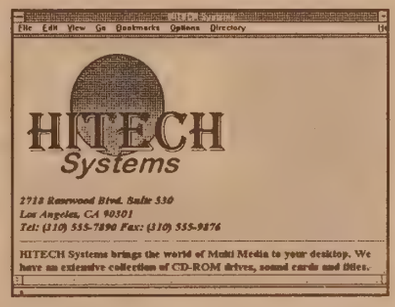
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AOL Debuts Browser, Targets Generation X

Easy Access To The Net

"Go big or stay home" seems to be America Online's motto these days as it makes final preparations for the introduction of several new, key services. AOL should release its eagerly awaited World Wide Web browser by the time you read this.

Web Browser

Available first for subscribers using Windows, with a Macintosh version due later in the summer, AOL's Web browser will open up the floodgates, providing access to Internet-based Web pages to millions of AOL users primed to surf the Net. The Web capability caps an entire suite of Internet-based services available to AOL subscribers including Usenet newsgroups, anonymous file transfer, and gopher and WAIS searches, in addition to other search services like Archie and Veronica.

In a strategic design move, AOL hit upon the concept to make the Internet look like a subset of its own online service by integrating icons for Web-based pages or locations into AOL itself. Furthermore, AOL places these icons within certain topical categories native to its own product to help bring a much-needed measure of organization and usability to the unorganized jumble that cyberspace actually is.

This isn't just a Web connection, but an easier way to use it. For instance, an icon for ESPN's Web page exists alongside other sports topic icons that actually reside on AOL. Click on the ESPN icon and you're off to the corresponding Web page that exists somewhere else on the Internet.

These pointers are also used for other major content-rich providers like CBS and various well-known marketers. This integration not only makes the Web feel like a part of AOL, but it allows users to chat and read mail while simultaneously surfing Web sites. To further add ease of use to the Net, users can create a menu of their favorite places, allowing them to jump directly to any desired area from any message board within AOL.

According to beta-users, the new browser works well, and feels fast even at 9600 baud. Some drawbacks include a smaller display than other browsers like Mosaic and Netscape; and the topical integration isn't expected to make it to the Macintosh version. Early testers also noticed that Web sites using tags or commands peculiar to Netscape's implementation of the Hypertext Markup Language (HTML) looked, well, not good. But those compatibility issues involving different flavors of HTML should be ironed out prior to final release.

TurboWeb

To address the problem of low-speed access by most users with 9600–14400 baud modems, AOL's browser includes an exclusive technology called TurboWeb that displays pictures and graphics up to three times faster than other browsers. As images are rendered in stages, users can begin to view graphics as soon as the transmission begins. Each page is saved to increase the speed with which users can access images on subsequent visits during the same session.

Additionally, AOL continues to deploy its previously announced AOLNet, the company's private network that provides 28.8Kbps access at no additional charge. AOLNet now provides over sixty-six points of presence across the country in addition to SprintNet and Tymnet connections in over six hundred cities in the US.

To further add ease of use to the Net, users **can create a menu** of their favorite places, **allowing them to jump** directly to any desired area **from any message** board within AOL.

The Hub

Later this summer, AOL and New Line Television, a division of Turner Broadcasting, will unleash The Hub, a new online service with attitude targeted at twelve- to twenty-four-year-olds. The concept is to give Generation Xers, known to be big-time online service users to begin with, their first dose of a digital mall where you can hang, see, and be seen.

The Hub, the first online service targeted at a specific demographic group, plans to marry online interaction with broadcast-style programming that will feature regularly scheduled events, cool interaction opportunities, themed special events, on-air promotions, and contests.

Don't expect too much online live video at the outset or anytime soon. But AOL and New Line promise plenty of action. In fact, most content on The Hub will be designed around eliciting subscriber interaction via auditorium events, message boards, and chat rooms. The Hub hopes to foster some sense of online community for young adults by providing places to interact with peers as well as participate in the creation of new content. Sections will

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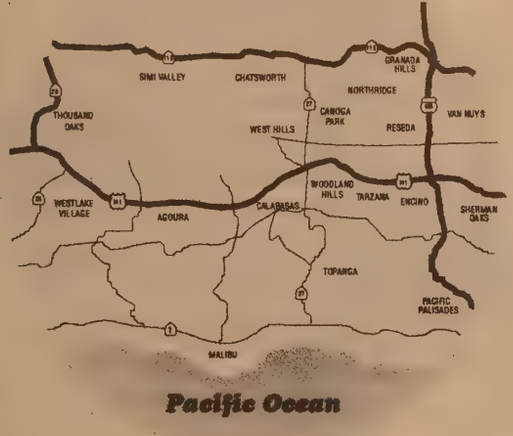

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Hayes Compatable
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PCI motherboard w/Built In Creative Sound Card
$399

Enhanced VLB
IDE controller w/ high speed serial port
$23

SYSTEM SPECIALS

TRITON IDE BEST BUY

- Intel Pentium Processor
- Intel Triton Chipset PCI Motherboard
- 8MB RAM, 256K Fast Cache
- 1.44MB FDD
- 1.2GB Enhanced Mode 3 IDE HDD
- PCI Enhanced Bus-Master IDE Controller
- Diamond Stealth 64 PCI Video Card W/2MB DRAM
- 2 16550 Uart High Speed Serial Ports Bidirectional Parallel Port
- 15' Flat Screen, .28DP, NI, 1280x1024 Monitor
- Mid Tower Case with 230 Watt Power Supply
- 101 Key Keyboard and Hi-Res 3 Button Mouse

PENTIUM 75	$1649.00
PENTIUM 90	$1749.00
PENTIUM 100	$1849.00
PENTIUM 120	$2249.00

TRITON IDE MEDIA BEST BUY

- Intel Pentium Processor
- Intel Triton Chipset PCI Motherboard
- 16MB RAM, 256K Fast Cache
- 1.44MB FDD
- 1.2GB Enhanced Mode 3 IDE HDD
- PCI Enhanced Bus-Master IDE Controller
- 2 16550 Uart High Speed Serial Ports Bidirectional Parallel Port
- Diamond Stealth 64 PCI Video Card W/2MB DRAM
- MAG 17' Flat Screen, .26DP, NI, 1280x1024 Monitor
- Mid Tower Case with 230 Watt Power Supply
- 4x CD-ROM 195ms, 600KB/s
- Sound Blaster 16 Sound Card
- 120 Watt Stereo Speakers
- 14 CD Titles
- 101 Key Keyboard and Hi-Res 3 Button Mouse

PENTIUM 75	$2499.
PENTIUM 90	$2599.
PENTIUM 100	$2699.
PENTIUM 120	$3099.

TRITON SCSI-2 MEDIA STATION

- Intel Pentium Processor
- Intel Triton Chipset PCI Motherboard
- 16MB RAM, 256K Fast Cache
- 1.44MB FDD
- 1GB SCSI-2 HDD
- Adaptec 2940 PCI SCSI-2 Bus-Master Controller
- 2 16550 Uart High Speed Serial Ports Bidirectional Parallel Port
- Diamond Stealth 64 PCI Video Card W/2MB DRAM
- MAG 17' Flat Screen, .26DP, NI, 1280x1024 Monitor
- Full Tower Case with 250 Watt Power Supply
- 4x CD-ROM
- Creative 16 MCD Sound Card
- 120 Watt Stereo Speakers
- 14 CD Titles
- 101 Key Keyboard and Hi-Res 3 Button Mouse

PENTIUM 75	$2799.00
PENTIUM 90	$2899.00
PENTIUM 100	$2999.00
PENTIUM 120	$3399.00

TRITON WIDE SCSI-3 MEDIA STATIO

- Intel Pentium Processor
- Intel Triton Chipset PCI Motherboard
- 16MB RAM, 256K Fast Cache
- 1.44MB FDD
- 2GB Wide SCSI-3 HDD
- Adaptec 2940W PCI SCSI-3 Bus-Master Controller
- 2 16550 Uart High Speed Serial Ports Bidirectional Parallel Port
- Diamond Stealth 64 PCI Video Card W/2MB DRAM
- MAG 17' Flat Screen, .28DP, NI, 1280x1024 Monitor
- Full Tower Case with 250 Watt Power Supply
- 4x CD-ROM
- Sound Blaster 16 Sound Card
- 120 Watt Stereo Speakers
- 14 CD Titles
- 101 Key Keyboard and Hi-Res 3 Button Mouse

PENTIUM 75	$3499.
PENTIUM 90	$3599.
PENTIUM 100	$3699.
PENTIUM 120	$4099.

486 VLB STAR

- Intel Pentium Technology Ready
- 486 VLB MB w/256K Cache
- 4 MB Ram (70ns)
- 32 Bit VLB IDE (2S, P, G) Controller
- 1.44 FDD 3.5"
- 540 MB IDE HDD
- 32 Bit Window Accelerator with 1 MB
- Mini Tower Case with 200 Watt Power Supply
- 14", .28DP, Ni SVGA Monitor
- 101 Key Keyboard
- High Resolution Serial Mouse
- Dos 6.22 and Windows 3.1, Add $85

Intel 486 DX2-66	$899.00
AMD 486 DX2-80	$899.00
AMD 486 DX4-100 BEST BUY	$909.00
Intel 486 DX4-100	$999.00

PENTIUM SUPREME

- Pentium PCI MB w/256K Cache
- 8 MB Ram (70ns)
- PCI IDE (2S, P, G) Controller
- 1.44 FDD 3.5"
- 850 MB IDE HDD
- Diamond Stealth 64 PCI w/2 MB
- Mid Tower Case with 230 Watt Power Supply
- 15" .28DP, NI, 1028x1024, SVGA Monitor
- 101 Key Keyboard
- High Resolution Serial Mouse
- Dos 6.22 and Windows 3.1, Add $85

Pentium 75 MHz	$1475.00
Pentium 90 MHz	$1549.00
Pentium 100 MHz	$1649.00

TRITON UPGRADES

8MB → 16MB	$
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540MB IDE → 1.2GB IDE	$
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DOS 6.22 & Windows 3.1	
DOS 6.22 & Windows 3.11 for Workgroups	

486 VLB SUPREME MEDIA

- Intel Pentium Technology Ready
- 486 VLB MB w/256K Cache
- 8 MB Ram (70ns)
- 32 Bit VLB IDE (2S, P, G) Controller
- 1.44 FDD 3.5"
- 540 MB IDE HDD
- 32 Bit Window Accelerator with 1 MB
- Sound Blaster 16 Compatible Sound Card
- 2x (Double Spin) CD-Rom
- 160 Watt AMP Speakers
- 4 Deluxe CD Titles
- Mid Tower Case with 230 Watt Power Supply
- 14" SVGA-NI Monitor
- 101 Key Keyboard
- High Resolution Serial Mouse
- Dos 6.22 and Windows 3.1, Add $85

Intel 486 DX2-66	$1299.00
AMD 486 DX2-80	$1299.00
AMD 486 DX4-100 BEST BUY	$1329.00
Intel 486 DX4-100	$1429.00

PENTIUM SUPREME MEDIA

- Pentium PCI MB w/256K Cache
- 8 MB Ram (70ns)
- PCI IDE (2S, P, G) Controller
- 1.44 FDD 3.5"
- 850 MB IDE HDD
- Diamond Stealth 64 PCI w/2 MB
- Sound Blaster 16 Compatible Sound Card
- 4x (Quad Spin) CD-Rom
- 80 Watt AMP Speakers
- 4 Deluxe CD Titles
- Mid Tower Case with 230 Watt Power Supply
- 15" .28DP, NI, 1028x1024, SVGA Monitor
- 101 Key Keyboard
- High Resolution Serial Mouse
- Dos 6.22 and Windows 3.1, Add $85

Pentium 75 MHz	$1775.00
Pentium 90 MHz	$1849.00
Pentium 100 MHz	$1949.00

TRITON SYSTEM FEATURES

1) **THE NEW INTEL TRITON PCI CHIPSET** - The latest generation Pen processor chipset that supports up to 120MHz CPU.

2) **EDO RAM AND PAGE MODE DRAM** - EDO (extended data outp DRAM increases the CPU to memory bandwidth from 100MB/s 200MB/s.

3) **PCI BUS ENHANCED IDE CONTROLLER** - The built-in enhance controller supports both PIO mode 3 and mode 4 IDE. The transfer rate for mode 4 IDE can reach up to 17MB/s.

4) **PLUG AND PLAY FLASH BIOS** - Frees users from hardware con problems. The Award PnP BIOS is stored in flash EPROM to de and remember each card's configuration.

5) **16550 UART & EPP PARALLEL PORTS** - High speed serial enhanced parallel prots for high speed file transfers and prin

6) **MORE**...These systems support both PS/2 and AT style keyb connectors. Secondary level write back cache mode to incre system performance. P54C-IP utilizes a lithium battery wh provides environmental protection and longer lifetime.

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SYSTEM BOARDS

Intel Plato - P5-75/90/100MHz PCI M/B	$299
Intel Trition - P5-90/100MHz PCI M/B w/ 8MB EDO RAM	$599
Intel Trition advanced ZP - P5-90-120MHz PCI M/B w/ 256K Cache	$319
Intel Trition - P5-90-120MHz PCI M/B w/ 256K Cache OEM	$249
Amptron 6900 - 486DX4 VLB M/B (30/72pin)	$89
Amptron 9200 - 486DX4 VLB M/B (72pin)	$135
FIC 486DX EISA VLB M/B (30 Pin)	$119
P5-90/100MHz PCI M/B w/HS IO (SIS chipset)	$199
Laser 486DX4 PCI M/B (72pin)	$139
OPTI P5-90/100MHz PCI/VLB M/B w/HS IO	$199
OPTI 486DX4 VLB M/B (72pin)	$99
OPTI 486 VLB M/B (combo)	$97
Vega (USA) 486DX VLB M/B (30 Pin)	$135
Vega (USA) 486DX VLB M/B (72 Pin)	$145
486DLC-40 w/128K cache w/CPU and math co	$115
486SLC-33 w/128K cache w/CPU	$79
386DX-40 w/128K cache w/CPU	$84

* *Motherboards from AMI , Asus, and Micronics available upon request*

MICROPROCESSORS (CPU)

Intel Pentium 120 MHz	$895.00
Intel Pentium 100 MHz	$499 00
Intel Pentium 90 MHz	$389.00
Intel Pentium 75 MHz	$294.00
Intel 486DX4-100 MHz	$229.00
Intel 486DX4-75 MHz	$169.00
AMD 486DX4-100 MHz	$149.00
AMD 486DX2-80 MHz 3V	$129.00
Intel 486DX2-66 MHz	$149.00
Intel 486DX-33 MHz	$109.00
Intel 486SX-33 MHz	$89.00
Pentium CPU fan	$13.00
486 CPU fan	$8 00

* *Due to the volatility of CPU prices, we regret that we cannot guarantee the prices as shown, please call for the latest price.*

MEMORY

Simm 1x3 (1mb) 30 pin	$42 00
Simm 1x9 (1mb) 30 pin	$43 00
Simm 4x3 (4mb) 30 pin	$135.00
Simm 1x32 (4mb) 72 pin	$145.00
Simm 2x32 (8mb) 72 pin	$279 00
Simm 4x32 (16mb) 72 pin	$499 00
Simm 8x36 (32mb) 72 pin	$999.00
Simm 16x36 (64mb) 72 pin	$2299.00

* *Due to the volatility of Memory prices, we regret that we cannot guarantee the prices as shown, please call for the latest price.*

FLOPPY DISK DRIVES

Mitsumi 1.2mb (5.25")	$39.00
Mitsumi 1.44mb (3.5")	$28 00
Teac 1.2mb (5.25")	$42 00
Teac 1.44mb (3.5")	$32.00
Teac dual 1.2mb (5.25")/1.44mb (3.5")	$80.00

ADD ON BOARDS AND CONTROLLERS

AT Super IDE IO adapter (dual FDD & HDD, 2S, 1P 1G)	$12 00
Vesa Local Bus Super IDE & IO	$18 00
PCI IDE adapter	$18.00
PCI IDE w/IO (1655 UR)	$39.00
PCI SCSI adapter	$69.00
AT IDE w/16550 Hi-Speed IO	$29 00
VLB IDE w/16550 Hi-Speed IO	$43 00
VLB SCSI w/16550 Hi-Speed IO	$119.00
Promise 2300+ Enhanced VLB 16550UR	$54 00
Adaptec AHA-1522K SCSI floppy/hard adapter card	$89.00
Adaptec AHA-1542CF SCSI bus master adapter card	$189.00
Adaptec AHA-2742TK EISA SCSI bus master host adapter card	$339 00
Adaptec AHA-2842K VLB SCSI bus master host adapter card	$199 00
Adaptec AHA-2940 PCI wide SCSI-3 host adapter card	$249.00
Adaptec AHA-2940 PCI fast SCSI-2 host adapter card	$207.00

* *Please call for pricing on GSI, Promise, Bus Logic, Boca, DTC, Ultrastor, Future Domain, Always, Tekram and Q Logic controllers.*

HARD DISK DRIVES

Conner CFS 425A - 425mb IDE	$157.00
Conner CFS 540A - 540mb IDE	$168.00
Conner CFA 850A - 850mb IDE	$215.00
Conner CFA 1275A - 1.2GB IDE	$299.00
Conner CFP 1080S - 1.08GB SCSI-2	$449.00
Conner 2.1GB SCSI-2	$775.00
Maxtor MX-7540A - 540mb IDE	$169.00
Maxtor MX-7850A - 850mb IDE	$215.00
Maxtor MXT-71260A - 1.2GB IDE	$289.00
Quantum 420mb IDE	$162 00
Quantum 540mb IDE	$178.00
Quantum 540mb SCSI	$235.00
Quantum 730mb IDE	$249 00
Quantum 1080S - 1.08GB SCSI	$429.00
Quantum 2GB SCSI	$799.00
Quantum 2.1GB Wide SCSI-3	$999.00
Samsung 420mb IDE	$155 00

HARD DISK DRIVES CONT.

Samsung 560mb IDE	$165.00
Segate 3660A - 540mb IDE	$168.00
Segate 31200A - 1.05GB IDE	$299.00
Segate 31230N - 1.05GB SCSI	$499 00
Segate 32430N - 2.14GB SCSI	$929.00
Western Digital AC2420 - 420mb IDE	$169.00
Western Digital AC2540 - 540mb IDE	$189.00
Western Digital AC2700 - 730mb IDE	$209 00
Western Digital AC2850 - 850mb IDE	$219 00
Western Digital AC31200 - 1.2GB IDE	$319.00

Please call for pricing on Digital (DEC), Micropolis, Mini-Stor, and any other unlisted models.

CHASSIS (CASES)

API GT-151 Mini Tower w/230W UL PS	$69.00
API GT-210 Mid Tower w/250W UL PS	$105.00
API GT-300 Full Tower w/300W UL PS	$159.00
PAC C-11 Desktop w/230W PS	$43.00
PAC C-21 Mini Tower w/230W PS	$43 00
PAC C-31 Mid Tower w/230W PS	$57 00
PAC C-41 Full Tower w/250W PS	$75 00
PAC A-21 Mini Tower w/230W PS	$37 00
PAC A-31 Mid Tower w/230W PS	$52 00
PAC A-41 Full Tower w/250W PS	$69.00
Diamond CS-130 Full Tower w/250W UL PS	$105.00
Diamond CS-230 Mid Tower w/250W UL PS	$95 00
Diamond CS-330 Mini Tower w/220W UL PS	$69.00
Diamond CS-730 Desktop w/220W UL PS	$71.00

** *Black color available for CS-130,230,330 cases*

* *2nd Fan available + $9.00*

VIDEO BOARDS

ATI mach64 PCI or VLB 4MB (V)	$449.00
ATI mach64 PCI or VLB 2MB (V)	$249.00
ATI mach64 PCI or VLB 2MB (D)	$169.00
Diamond Stealth64 video PCI or VLB 4MB (V)	$479.00
Diamond Stealth64 video PCI or VLB 2MB (V)	$259.00
Diamond Stealth64 PCI or VLB 2MB (D)	$165.00
Diamond Stealth64 PCI or VLB 1MB (D)	$125.00
Diamond Stealth 64 SE PCI 1MB (D)	$95.00
Diamond Stealth 64 SE VLB 1MB (D)	$99.00
Cirrus Logic 5428 VLB 1MB	$65.00
Cirrus Logic 5434 PCI 1MB	$89.00
S3 805 VLB 1MB	$68.00
S3 864 PCI 1MB	$92.00
Trident 9440 VLB 1MB	$65 00
Trident 9440 PCI 1MB	$68.00
Tndent 8900 ISA 1MB	$59 00
Trident 9000 ISA 512K	$37 00

* *Video Cards from Hercules, Matrox, Number 9, Orchid, Paradise, & STB available upon request*

* *(D) = DRAM (V) = VRAM*

MONITORS

Acer 34T 14" SVGA-NI (Green)D	$219.00
Acer 56L 15" SVGA-NI (Green)D	$329 00
Acer 76L 17" SVGA-NI (Green)D	$599.00
CTX 1451ES 14" SVGA-NI	$229.00
CTX 1565GM 15" SVGA-NI (Green)D	$315 00
CTX 1562GM 15" SVGA-NI (Green)	$299.00
CTX 1765GM 17" SVGA-NI (Green)D	$589 00
MAG DX-15F 15" SVGA-NI (Green)D	$329 00
MAG DX-17F 17" SVGA-NI (Green)D	$599 00
MAG MX	call
Office Pro 14" SVGA-NI	$209.00
Optiquest 2000DC 15" SVGA-NI (Green)D	$355.00
Optiquest 4000DC 17" SVGA-NI (Green)D	$649.00
Sony 15SF Multiscan 15" SVGA-NI (Green)D	$435.00
Sony 17SF Multiscan 17" SVGA-NI (Green)D	$855.00
Viewsonic 15G 15" SVGA-NI (Green)D	$389.00
Viewsonic 15GA 15" SVGA-NI (Green)D	$459.00
Viewsonic 17GA 17" SVGA-NI (Green)D Multi Speaker (NEW MODEL)	$799.00
Viewsonic 17GS 17" SVGA-NI (Green)D	$699.00
Viewsonic 17 17" SVGA-NI (Green)D	$795.00
Viewsonic 20G 20" SVGA-NI (Green)D	$1190.00
Viewsonic 20PS 20" SVGA-NI (Green)D	$1399 00
Viewsonic 21PS 21" SVGA-NI (Green)D	$1649.00
KFC 1511 15" SVGA-NI	$282.00
KFC 1507 15" SVGA-NI (Green)D	$329.00

* *Please call for prices on NEC, Sony, Nanao, Nokia M7 and any other unlisted models.*

KEYBOARDS

101 keys	$14.00
Honeywell 101 keys	$29.00
Keytronic KT-2000	$25.00
Focus 2001 w/ hard dust cover	$29.00
Focus 6200 w/ hard dust cover	$28.00
Focus 7000 w/trackball	$34.00
Focus 8000 (calculator, soft click)	$34.00
Focus 9000 (programable calculator)	$43.00
Fujitsu 4720 (click)	$36.00
Microsoft Natural Hi-Tech	$84.00

CD-ROM DRIVES

Creative Labs Discovery CD 16 kit new edition	$249 00
Creative Labs Discovery CD 4x kit	$329 00
Creative Labs Digital School House 16 kit	$239 00
Creative Labs Home 4x CD kit with 16 titles	$379 00
Creative Labs Value CD 2x16 kit	$185 00
Creative Labs Multimedia Office kit	$515.00
Acer 2x internal IDE	$90 00
Acer 4x internal IDE	$169 00
Mitsumi 4x internal IDE	$175 00
NEC 511 4x internal SCSI	$285 00
Panasonic 562B internal 2x	$89 00
Panasonic 572 internal 2x IDE	$99 00
Plextor 6x internal SCSI OEM	$499 00
Sony 55E 2x internal IDE	$105 00
Toshiba 3502 4x internal IDE	$185 00
Toshiba 5301 4x internal SCSI	$279 00
Toshiba 3601 4.4x internal SCSI	$309 00
Teac 55A 4x internal IDE	$169.00
4 CD titles	$12 00
14 CD titles	$37.00
16 CD titles	$42.00

* *Please call for pricing on Texel, Philip, Pioneer, and any other unlisted models.*

SOUND CARDS AND SPEAKERS

Acer S-30 MCD IDE	$64.00
Creative Labs S-B Basic	$69.00
Creative Labs Value Edition	$86.00
Creative Labs 16 MCD	$129.00
Creative Labs 16 MCD OEM	$75.00
Creative Labs 16 MCD ASP	$158.00
Creative Labs 16 MCD ASP OEM	$99.00
Creative Labs SCSI-2	$149.00
Creative Labs SCSI-2 OEM	$109.00
Creative Labs SCSI-2 ASP	$195.00
Creative Labs Awe 32 Value Edition	$189.00
Creative Labs Awe 32 ASP and wave MCD	$255 00
Winstorm 16 SCSI	$75.00
Mini stereo speakers	$8.00
MS-305 40w speakers	$25.00
MS-405 100w speakers	$42 00
MS-410 120w speakers	$47.00

* *Please call for prices on ATI, Cardinal, Diamond, Logitech, Roland, Orchid, Turtle Beach sound products.*

MODEMS

LT 14.4 internal data/fax	$47 00
LT 28.8 internal data/fax v.34	$149 00
Smartone 9600/2400 internal data/fax	$29.00
Smartone 14.4 internal data/fax	$58 00
Smartlink 9600/2400 internal data/fax	$32.00
Smartlink 14.4 internal data/fax	$57.00
Smartlink 14.4 internal data/fax/voice	$65 00
Smartlink 14.4 external data/fax	$84 00
Smartlink 28.8 internal data/fax v.34	$149 00
Smartlink 28.8 external data/fax v.34	$189 00
U.S. Robotics Sportster 14.4 internal data/fax	$94 00
U.S. Robotics Sportster 14.4 external data/fax	$105 00
U.S. Robotics Sportster 28.8 internal data/fax v.34	$217 00
U.S. Robotics Sportster 28.8 external data/fax v.34	$229.00

* *Please call for pricing on Boca, Hayes, Supra, and Zoom modems.*

TAPE BACKUPS

Colorado DJ-20 internal 250mb	$124.00
Colorado DJ-30 internal 350mb	$139.00
Colorado DJ-25 internal 700mb	$199.00
Colorado T-1000 internal 800mb	$219.00
Colorado DJ-50 internal 1400mb w/FC-20 Controller	$299.00
Colorado JT-20 external 250 parallel	$253.00
Colorado JT-30 external 350 parallel	$275.00
Colorado JT-35 external 700 parallel	$357.00
Colorado AB-11 external adapter kit	$38.00
Colorado KE-09 external drive kit	$75.00
Colorado FC-10 500kb/s - 1mb/s adapter kit	$80.00
Colorado 1GB and 2GB internal and external	call
Conner Tapestor 250 internal	$132.00
Conner Tapestor 420 internal	$148.00
Conner Tapestor 850 internal	$257.00

* *Please call for pricing on DEC, Etabyte, I-Omega, Summite, Tecmar, and Wangtek tape backup systems.*

MICE/TRACKBALLS

Qtronix 3 button serial mouse	$8.00
A-4 Tech serial mouse	$9.00
A-4 Tech serial trackball	$24 00
A-4 joystick	$17.00
Logitech Bus Mouseman	$62.00
Logitech PS-2/serial Mouseman	$43.00
Logitech PS-2/serial Trackman	$69.00
Logitech Cyberman 3D	$42.00
Logitech cordless mouse	$85.00
Microsoft serial mouse (OEM)	$24.00
Microsoft bus mouse	$52.00
Microsoft ballpoint trackball	$49.00

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Please call for pricing on Cannon, Citizen, Epson, Hewlett Packard and Panasonic printers.

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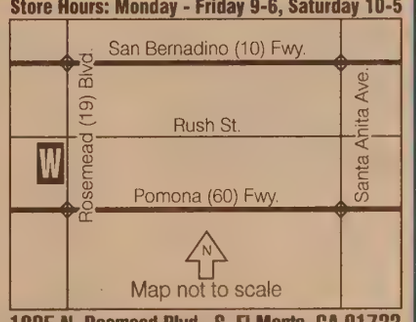

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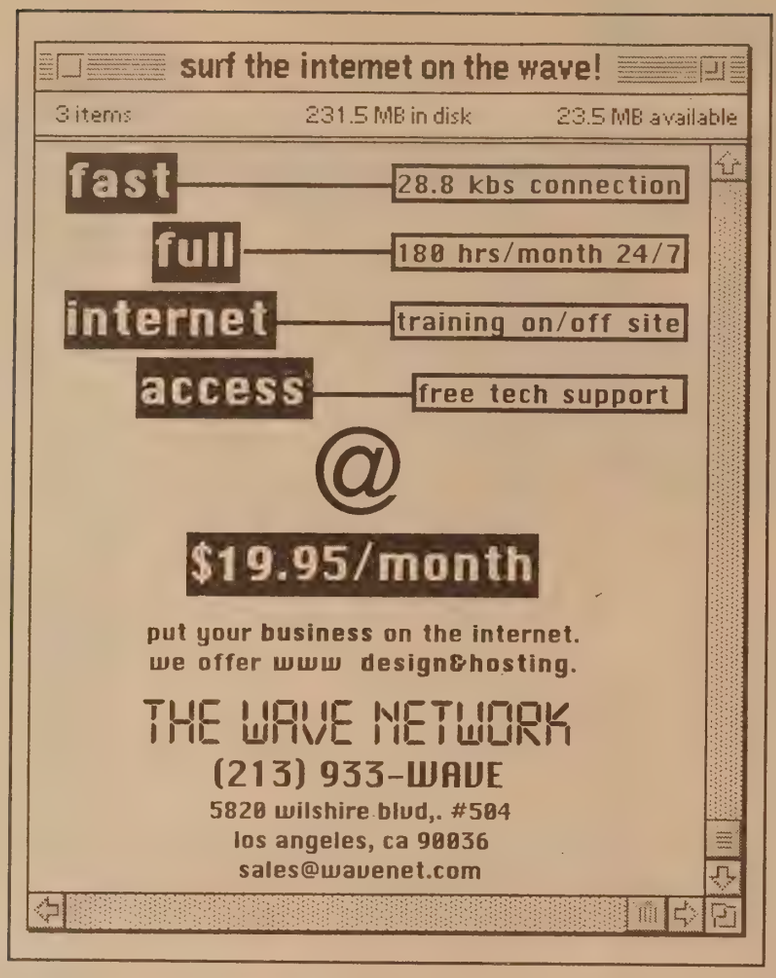

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Online Guide

Online Services *continued...*

include topics on entertainment, food, travel, new products, and where to find cool stuff. Special features will include international classifieds, chat rooms with leading syndicated writers on topics ranging from sports to self-help (I doubt we're talking "Ask Beth"), and Comic Time, an area dedicated to comic books, writers, and artists.

The commercial side of this will include messages from marketers in the form of live, on-air promotions and entertainment blocks that could be sponsored in addition to regularly scheduled features. The Hub's founders believe it can provide an ideal place for advanced marketers to develop a digital relationship with two million consumers who know how to spend money. For the pleasure of that company, users will pay a fixed monthly fee of $9.95 for access to The Hub and all of the other services of AOL for up to five hours each month.

In contrast to CompuServe's WorldsAway offering discussed here a few months ago (see *MicroTimes* issue #136), AOL will stake the success of The Hub on peer-to-peer spontaneity that needs no avatar. Where CompuServe figures to gain users with whiz-bang graphical virtual space and the ability to manipulate objects, AOL will target Generation X and try to provide a sense of place with MTV excitement. So, fess up. Some of you have probably already mumbled under your breath, "Good, get the kids a Jungle Land so they won't bother us 'adults' on AOL." We'll see.

Bright Future For AOL, Microsoft Or No Microsoft

Meanwhile, AOL continues to be the virtual money machine, racking up 734,000 new subscribers in first quarter '95 compared to its previous best of 421,000 in the last quarter of '94. What kind of green does that translate into? In May AOL reported first quarter 1995 revenues increased 236% to $106,414,000 from $31,689,000 in fiscal 1994's third quarter. Excluding special costs, including losses on new subsidiaries and ventures like 2Market Inc., an online shopping venture, AOL quadrupled net earnings to $5.1 million in '94's third quarter compared to $1.272 million in the same quarter a year earlier. AOL estimates over 2,500,000 subscribers.

But then there's Microsoft's Network ready to launch later this year. What then? Duck and cover? Don't bet on it. Despite Microsoft's ability to stuff subscribers into its new online service thanks to its being distributed with Windows 95, the market realities of price, unique features, exclusive content, and ease of use will still guide the fortunes of the commercial online service marketplace for some time. Add Microsoft to the big three—CompuServe, Prodigy, and AOL, plus Delphi (now owned by Rupert Murdoch's News Corp, now aligned with MCI) and Apple's eWorld—and there will be plenty of choices for consumers to access quality product and Internet services. For consumers, this will only drive down prices. Furthermore, online communities do not happen overnight, so it is not a reach to believe existing customers will easily continue to exhibit behavior approximating brand loyalty.

For a giant like Microsoft to get into the online game can only help AOL and other services because it will legitimize the entire marketplace. By providing easy and actually helpful access to the Internet and targeting strategic audiences, AOL is well positioned to take advantage of the tens of millions of new consumers Microsoft will bring to the table. ■

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BY CYNTHIA DYER-BENNET

MU-SPIN

NASA-Funded Program Gets Minority Colleges Online

In 1951, the Georgia state legislature passed a budget that barred public schools and colleges from receiving state funds if any Negro students were allowed into the all-white schools. The National Guard quelled a riot resulting from an attempt by a black family to move into an all-white section of Cicero, Illinois. The California Senate voted to retain a law banning racially mixed marriages, despite a 1948 State Supreme Court ruling declaring the measure unconstitutional.

And Cynthia Harvey, fresh out of college, became the first African American employed in a professional capacity at the David Taylor Model Basin Supersonic Wind Tunnel research and test facility. She almost didn't get the job. She was accepted sight unseen based on her college grades and skills in math. But when Navy officials met her, they tried to back out of the agreement. Fortunately, says Harvey, a man in the personnel department in charge of okaying the request for this position did the right thing. "He threatened to reject the request if I wasn't accepted," she recalls.

Harvey's link to the military ended in 1965, when she joined the faculty at Morgan State University in Maryland. But it was renewed in 1993, when she became technical coordinator of a program called MU-SPIN, the Minority University-Space Interdisciplinary Network.

What Is MU-SPIN?

MU-SPIN is a NASA-backed program designed to bring Internet connectivity to minority colleges and universities. NASA relies on the Internet as its primary means of informing universities and colleges about the projects and grants it has in the works. Though NASA sends the same information through the mail, schools lacking Internet connectivity are last in line to receive it. Many of the four hundred minority universities and colleges in the United States cannot afford higher-end computer technology and training, so these institutions and their students miss opportunities to interact with the scientific community.

In 1989, Dr. Yvonne Freeman, minority university program director at NASA headquarters, asked Valerie Thomas of NASA's Goddard Space Flight Center to help design the MU-SPIN project. "I was very interested in working on that project because I appreciate the need to have minority schools involved in wide area networking," says Thomas. "I could see that, if the minority universities were behind prior to the advent of the electronic network, then they would be even further behind if they were not also connected to the network. In addition, if they became active participants in electronic networking, then there could be a 'leveling of the playing ground' for the smaller and less endowed colleges and universities such as the minority universities."

Valerie Thomas of NASA's Goddard Space Flight Center:

"If minority colleges and universities became active participants in electronic networking, then there could be a 'leveling of the playing ground' for the smaller and less endowed colleges and universities."

A coordination team spent the next eighteen months defining the MU-SPIN mission. Three phases of the program were determined. The first phase: Get the minority universities hooked up to the Net. The second phase: Establish a training program for the universities' technical support teams so that they could become self-sufficient. The third phase: Help MU-SPIN institutions be more effective in competing for NASA-funded research programs in science and technology.

The first meeting between NASA administrators and minority-college personnel was held in January of 1991. The federally funded National Science Foundation was invited aboard. Since then, the NSF has been a sponsor of MU-SPIN's annual conferences and a key player in helping MU-SPIN members financially. "Their job is to be sure that research is done in critical areas to the government," says Harvey, "and to be sure that funding is going in the right direction. Many of the things that we need for MU-SPIN are funded by the NSF."

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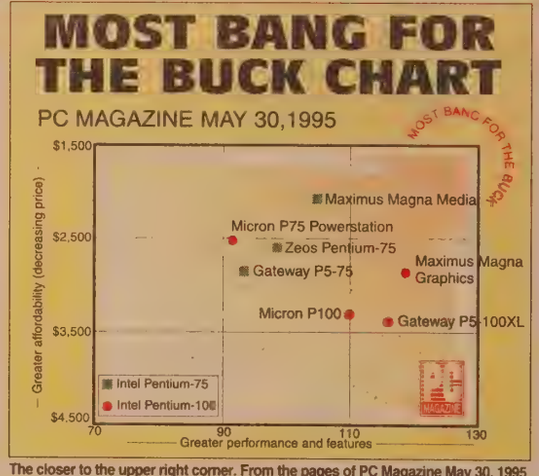

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MU-SPIN *continued...*

MU-SPIN's first major gathering of members was held in September of 1991. Since then, there have been three more annual conferences, each one larger than the last. The 1993 conference boasted guests from thirty-eight universities, twenty-one private sector organizations, and five NASA centers and governmental agencies. The '94 conference had approximately 120 attendees representing seventy-five universities and forty-three private industry organizations. According to MU-SPIN Project Manager Jerome Bennett, a turnout of 450 people is expected at the 1995 conference.

How MU-SPIN Works

There are four basic parts of the MU-SPIN program. The beginning stage is designed to help minority universities install LANs on their campuses. MU-SPIN can't offer financial help for schools in need of hardware, according to Harvey, "but there are grants from the NSF which will help them buy computers," she says. "We'll tell the schools what they need and how to do it in the least expensive manner. The NSF will pay to connect their network to the outside once a LAN is set up."

The next step towards Internet connectivity is making sure the schools have the software necessary to use the Net. As Harvey points out, many of these minority universities cannot afford to purchase expensive software. There is an abundance of freeware on the Net, but without connectivity, the schools cannot retrieve it.

So MU-SPIN staff designed a network starter kit that is regularly kept up to date. It includes networking software, step-by-step procedures on designing and setting up a LAN, and an Internet connectivity guide.

"What we do at MU-SPIN is try to make getting involved as inexpensive as possible," says Harvey. MU-SPIN staffers download freeware from the Net and test it for bugs. If necessary, they write documentation. This freeware is then put on floppies and distributed to MU-SPIN universities along with documentation and instructions. "We make sure that the universities have standardized telnet, ftp, and email software," she explains. MU-SPIN permits the schools to make duplicates of the disks for distribution to all the computer labs around their campuses.

One of the many schools to benefit from this starter kit is Fisk University in Nashville, Tennessee. Fisk has been sending representatives to MU-SPIN conferences since 1991 and used one of the earliest versions of the starter kit to set up a LAN in 1992. Dr. John M. Springer, professor of physics at Fisk, says that the motivational help MU-SPIN provides has been as useful as the software and manuals. "Perhaps the most important part that MU-SPIN has played in campus networking has been to lead the way and help energize those of us who were interested in the possibilities that an Internet connection would present... We are very proud of our Web home page [*http://www.fisk.edu*]. It was one of the first to be found at a minority university or college, and continues to evolve."

In conjunction with the starter kit, MU-SPIN offers hands-on training for administrators, faculty, and staff in establishing and maintaining networks. Training workshops present instruction on network configuration and management, software development information, and how-to lessons on maneuvering through cyberspace.

Workshops, consisting of four three-hour sessions, have been held at MU-SPIN headquarters in Greenbelt, Maryland, and at universities and colleges all over the United States. One of the sessions provides an overview of network protocols and takes an in-depth look at installing and managing TCP/IP-based networks and services.

Cynthia Harvey, Pioneer

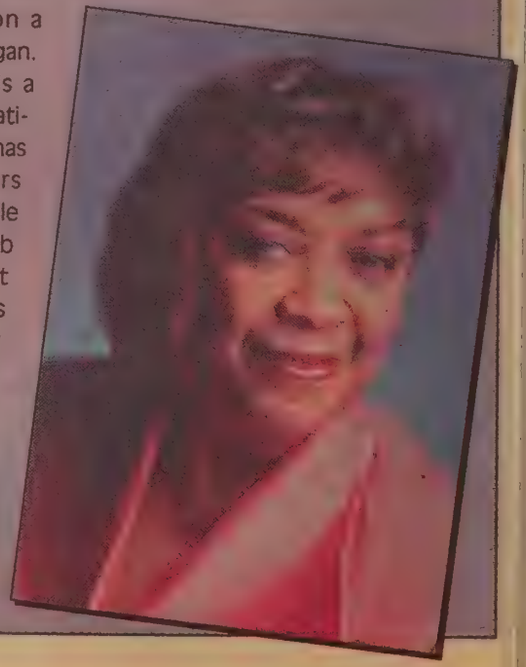
Harvey has been involved with computers for over forty years. Her introduction to them came with her first job. "When I worked at the Navy department, we found a research paper on how to build a computer, so we built one on our lunch breaks and in the evenings. I was the first one to use it. That was back in 1952," she said.

In 1955, she went to work for Westinghouse Electric Corporation as an engineer in the digital computer lab, where she wrote computer simulations for various branches of the military. "They had one of the first commercial computer systems available. The first machine I programmed on was the IBM 650," she said with some amusement. "We programmed in machine language. What we were really doing was coding everything in binary."

She joined the faculty at Morgan in 1965 as a professor of mathematics. She developed a computer science curriculum, established a computer center there in 1972, and by 1981 had all the academic buildings wired for access to a computer network. "When I started at Morgan, nobody but the chair of the math department had heard of computers," she said. "I spent about eighteen years struggling to convince the department that computers belonged there."

Convince them she did. Morgan was one of the first universities to request MU-SPIN's services. "We were working with MU-SPIN on getting some networks installed there back in 1992. I suggested they give some workshops on installation procedures, and they agreed. They had some really excellent lectures, workshops, and demos," she said, adding, "I did all the legwork in setting up the space, the equipment, and the notification, but they provided the expertise."

It was through her 1992 work with MU-SPIN at Morgan that she caught the eye of the MU-SPIN team. She joined MU-SPIN as the technical coordinator on September 9, 1993, on a two-year loan from Morgan. Though the position is a full-time job, this indefatigable sixty-six-year-old has spent the last two years working at MU-SPIN while continuing to do her job at Morgan. "I just couldn't see leaving all the things I've been working on for these past thirty years at Morgan, so I put in a lot of extra hours to do both jobs," she says—adding that if she had an opportunity to serve again, "I'd take a sabbatical."



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MU-SPIN *continued...*

Another session is on planning, designing, and installing an Ethernet-based LAN, with hands-on demonstrations on both Mac and PC.

The resource training sessions give participants an overview of the Internet. They are introduced to research tools like online library catalogs, scientific data systems, and public domain software archives. They also get a demonstration on using ftp and telnet, and training on installation and use of Web browsers. These Internet resource training sessions are the most popular portion of the workshops, according to Harvey: "We've got to have two sessions of that because so many people come to it we can't fit them all in the room at the same time."

MU-SPIN's Future

One of the difficulties faced by MU-SPIN training staff is the Sisyphean nature of the task, according to Harvey. She has three technicians under her supervision. It is up to her and her staff to handle all the training sessions for all the minority universities that request it. But because computer technology changes so rapidly, it is impossible to visit each of the 114 MU-SPIN campuses before the information given to the first university on the circuit becomes out of date.

The 1994 MU-SPIN conference addressed the problem of keeping the network of minority universities current, technologically. The thrust of the conference was to discuss the concept of regional training centers. These centers would function as centralized locations for training sessions that could be attended by representatives from multiple universities in the surrounding area.

The locations for these centers are currently being considered. "The requests for proposals from the universities went out about a month ago," said Harvey, "and the responses from the schools should be in in the next few weeks. The schools that host will get some funding from NASA to help with this. Their job would include notifying all the other schools about the workshop. Our team should be there at the regional center to teach others how to assist other schools."

MU-SPIN Project Manager Bennett spoke enthusiastically about this project, saying: "The biggest thing we're doing to date is these regional training centers; this is a program that's going places." An annual budget of $3 million for six sites has been assigned. Each site will receive up to $500,000 per year for up to five years, according to Bennett. "This money will be used to support building network infrastructure for the lead institution and the other institutions in the area. The school

RESOURCES:

MU-SPIN's online resource center can be reached via gopher at: *muspin.gsfc.nasa.gov* .
Its Web page address is:
http://muspin.gsfc.nasa.gov .

continued on page 208

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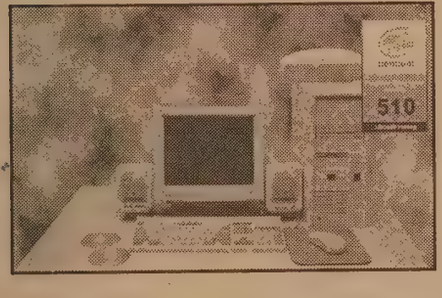

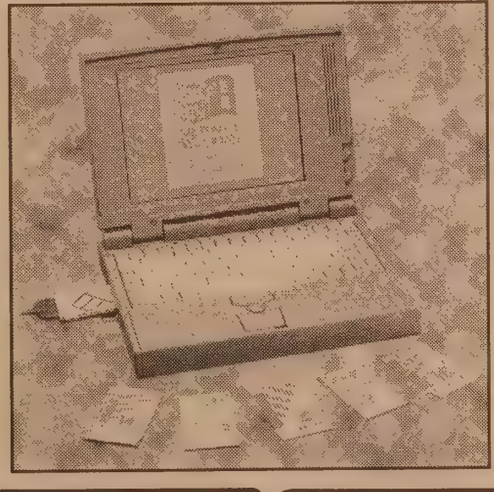

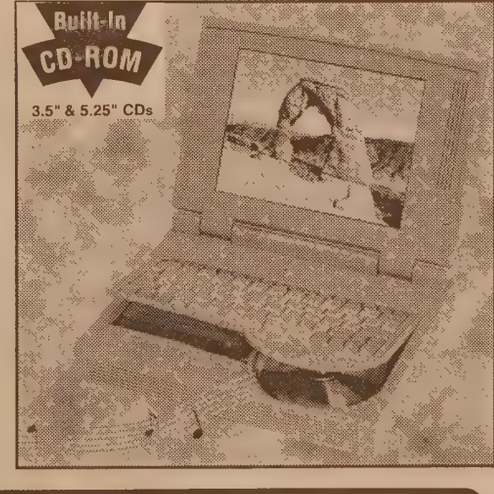

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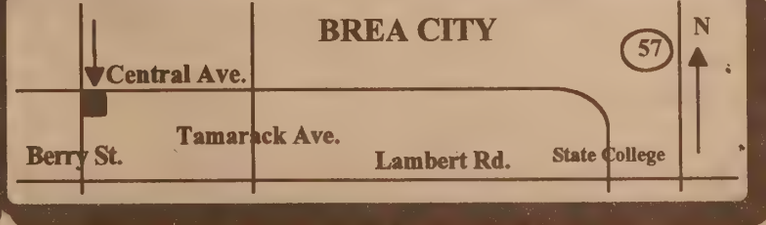


Web Page Listings

Looking for beaches to Netsurf? Herewith we present an assortment of cool, interesting, and informative Web sites to tickle your fancy and stimulate your mind.

3Com Corporation on the Web
http://www.3com.com New product and service information from 3Com, featuring information on adapters, hubs, and internetworking products. [Exp. #139.]

24-Hour Recorded Job Lines For The San Francisco Bay Area
http://www.webcom.com/~rmd/bay-area/joblines.html Listing of jobline numbers. Also, pointers to other local employment resources and online job listings. [Exp. #140.]

Access Monterey Peninsula!
http://www.mty.com Access Monterey! features extensive information for the Monterey Peninsula and sponsors a weekly trivia contest. [Exp. #140.]

Adult CD-ROM Outlet
http://www.webcom.com/~dml/nubody/nubody.html The best in mail-order Adult CD-ROMs with pictures and free catalog. 18+ only. [Exp. #142.]

Agora Digital
http://www.agora.net/ Online service for new and traditional media, including searchable database of industry talent. [Exp. #143.]

Aimnet Corporation
http://www.aimnet.com Prices and services for Aimnet, an ISP for the Bay Area and Silicon Valley. [Exp. #139.]

Air Brokers International
http://www.aimnet.com/~airbroker Visit places around the world, online world travel newsletter, circle the globe, Asia, Pacific. [Exp. #143.]

The Aloha Dateline
http://users.aimnet.com/~ayl/aloha.htm "I found love on the Aloha Dateline! It's a fun, safe, exciting way to meet!" [Exp. #142.]

Altera Corporation
http://www.altera.com Company/product information, job opportunities for Altera (NASDAQ: ALTR), leader in high-performance programmable logic devices and CAE tools. [Exp. #142.]

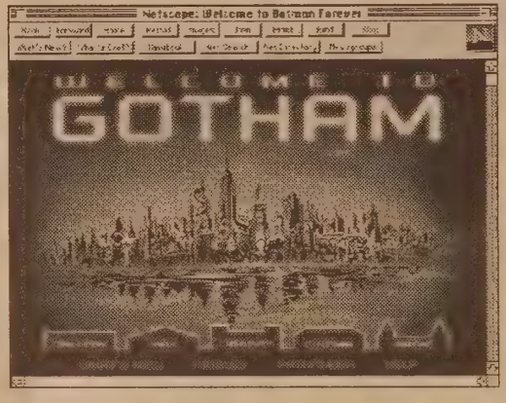
American Bar Association
http://www.abanet.org General facts and resources on the law, continuing legal education courses and requirements, ABA info. [Exp. #141.]

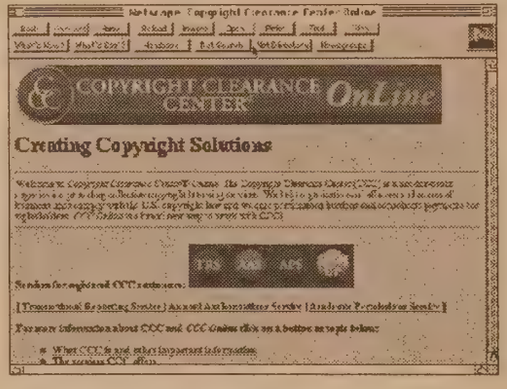
American Communications Association
http://www.uark.edu/depts/comminfo/www/ACA.html For those interested in communication research, communication law, freedom of information, free speech, First Amendment. [Exp. #141.]

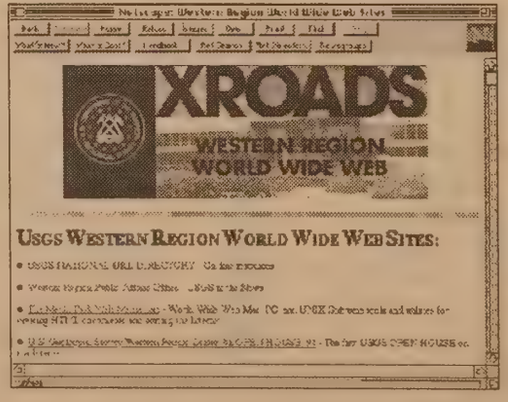
AP Research
http://www.apresearch.com Market research reports and consulting services for PC cards (PCMCIA). [Exp. #141.]

Around-The-World Airfares & Adventures
http://www.highadv.com High Adventure Travel's catalog of discount around-the-world airfares, Himalayan treks, African Safaris, etc. [Exp. #143.]

Art & Artist Network
http://voyager.via.net/netbiz/artist.html International directory of artists, art galleries, and art-related services. [Exp. #141.]







Astrology by Moonlight
http://voyager.via.net/netbiz/astrol.html Monthly personal horoscopes and astrological information. [Exp. #141.]

Astro-Temp
http://voyager.via.net/netbiz/atemps.html High-paying "temp" jobs available now by astrological sign. [Exp. #141.]

The Athlete's Diary
http://alumni.caltech.edu/~slp/tad.html The Athlete's Diary for Windows, Mac, and DOS—complete information and full-featured demo copies. [Exp. #140.]

Australian Embassy
http://www.aust.emb.nw.dc.us General background on Australia, US-Australia trade, the defense relationship, and answers to frequently asked questions. [Exp. #140.]

Azule of Saratoga, Florist
http://www.portal.com/~jdoll/joes/azule Say it with flowers! Order direct via the Net. We ship by wire worldwide. [Exp. #139.]

BahnWare
http://www.bahnware.com/bahnware BahnWare develops WWW solutions for business marketing, distributed engineering, and personal use. Magellan GPS Systems WWW site. [Exp. #139.]

Batman Forever
http://batmanforever.com Artwork, trailers, storyboards, behind-the-scenes glimpses into the making of *Batman Forever*, and more. [Exp. #143.]

Bay Area Real Estate Network
http://www.dnai.com/~ted An excellent resource for buyers and sellers in the Bay Area! [Exp. #140.]

Bay Area Transit Information Project
http://server.berkeley.edu/Transit/ Provides up-to-date public transit information for the San Francisco Bay Area. [Exp. #140.]

BayNet Real Estate
http://www.baynet.com/re.html The Bay Area real estate site. Enter ads for free, search through hundreds of listings. [Exp. #141.]

Best Internet Communications, Inc.
http://www.best.com Internet service provider information. [Exp. #138.]

Bill's House of Financial Independence
http://www.vpm.com/selfhelp Providing business opportunities for the beginner and seasoned pro. For as little as $20. [Exp. #142.]

Binary Services Solutions
http://www.kaiwan.com/~npham Provider of Internet home page publishing, FoxPro and C++ business applications. Free initial consultation. [Exp. #142.]

Black Data Processing Associates
http://www-leland.stanford.edu/group/bgsa/bdpa/bdpa.html National network of DP professionals, educators, students, and vendor reps. [Exp. #140.]

Bob Bickford's Home Page
http://www.well.com/

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HP SCANNER III C	$915
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CANON BJ-600e	$[illegible]
•EPSON:	
EPSON AP- 2250 / AP-5000+	$110 / $240
EPSON 400 / 800+	$[illegible]
EPSON STYLUS-COLOR	$[illegible]
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EPSON AL-1500/1600	$[illegible]
•PANASONIC	
KX-P1150 / P2130	$[illegible]
KX-P2135 / KX-P3123	$[illegible]
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Online Guide

Web Page Listings *continued...*

Community/rab/index.html The still-evolving home page of Bob Bickford, Professional Wild-Eyed Visionary. [Exp. #138.]

BookNet
http://www.armory.com/~timeline/SCbooks.html Santa Cruz County bookstore catalog. [Exp. #140.]

Buzznet Magazine
http://www.hooked.net/buzznet An SF-based online cultural Web magazine capturing colorful, fresh images, words, and sounds constantly. [Exp. #141.]

The California Libertarian Party
http://www.lp.org/lp/ca/lpc.html [Exp. #138.]

California Association of Residential Care Homes
http://www.hooked.net/users/rallap/index.html Nonprofit association of care providers; current list of vacancies in Santa Clara County; referrals. [Exp. #143.]

California Computer Expo '95
http://www.qualcomm.com/users/gnash/cce.html Largest consumer computer show on West Coast. August 17–20, San Diego Convention Center. 1-800-573-3247. [Exp. #143.]

Career Taxi
http://www.iquest.net/Career_Taxi/taxi.html A forum for the hottest companies to present their home pages and their employment opportunities. [Exp. #139.]

CDworld: Largest Internet Discount Music Store
http://cdworld.com Discount music store with over 100,000 major and independent label music CDs and videos. Ship worldwide. [Exp. #141.]

Ceolas Celtic Music Archive
http://celtic.stanford.edu/ceolas.html Home of Celtic music on the Net, including tunes, artist profiles, sound samples, resources, etc. [Exp. #143.]

CGC Polar Sea
http://www.compumedia.com/~jef Extensive graphics covering last summer's expedition to North Pole and latest Deep Freeze to Antarctica. [Exp. #141.]

Clocks & Time
http://glen-ellyn.iit.edu/~clocks/clocks/ clocks.html Over 200 pages: clock, watch collecting, repair, sundials, time standards: organizations, museums, publications, and software. [Exp. #140.]

Coolware's Place on the Internet
http://none.coolware.com/ Coolware hosts *Good Medicine* Magazine and the electronic Job Guide. [Exp. #138.]

Cool Web Page
http://www.aimnet.com/hia/pcr/home.html For thought-provoking content. [Exp. #139.]

Copyright Clearance Center
http://www.directory.net/copyright Offers an automated process for obtaining and paying for reprint rights. [Exp. #143.]

County of Orange
http://www.oc.ca.gov Information on the Orange County board of supervisors, meetings, and press releases. [Exp. #142.]

Credi-Call
http://branch.com:1080/cc/cc.htm Use your credit card as discount calling card. Up to 90% savings on long distance. [Exp. #143.]

Cryptography, PGP, and Your Privacy
http://draco.centerline.com:8080/~franl/crypto.html Links to many of the Web's resources on cryptography, PGP documentation, privacy-related Web links. [Exp. #140.]

CyberLaw™
http://www.portal.com/~cyberlaw/ Educational service on computer law for computer users published monthly, including CyberLaw™ and CyberLex™ archive. [Exp. #141.]

CyberNautix, Inc.
http://www.community.net/~nautix/ UNIX and Internet technical services firm. System management, training, and custom services described. [Exp. #143.]

Cyno Technologies
http://www.cyno.com/cyno/ Cyno Technologies, Inc. provides computer user authentication systems, including solutions for enhanced remote access security. [Exp. #142.]

DCI
http://www.DCIexpo.com Get the latest information on high-tech conferences and expositions like Web World, EMail World, and more. [Exp. #140.]

Democratic Party Home Page
http://www.webcom.com/~digitals A place to find information on Democratic officials, organizations, and candidates. [Exp. #141.]

Digital Freedom Network
http://www.iia.org/dfn/ Circumventing censorship of published material by posting the works on the Internet. [Exp. #143.]

Easy Resume™
http://www.dnai.com/~lji Free resume outline and sample resume for software developers. [Exp. #140.]

eCenter
http://www.ecenter.com Putting businesses on the WWW in Virtual Trade Shows, general categories, email paging, business information. [Exp. #141.]

EDGE Home Page
http://www.well.com/www/edgehome Home page of EDGE, leading interactive entertainment publisher of *EDGE* magazine and EDGE games. [Exp. #141.]

The Electronic Gourmet Guide
http://www.deltanet.com/2way/egg The eGG is the Internet's first full-color food magazine featuring interviews, articles, recipes, columns, news, and links. [Exp. #143.]

The Electronic Telegraph
http://www.telegraph.co.uk Britain's first and best online daily news source—a crossword too. [Exp. #140.]

Employment Today
http://204.188.129.2/netbiz/employ.html High-paying permanent and temporary jobs available now, plus agency listings. [Exp. #142.]

Endeavour Travel
http://www.anzac.com/endnb/endvr.html Information and discount travel packages to Australia and New Zealand. [Exp. #142.]

Enterzone
http://enterzone.berkeley.edu/enterzone.html Noncorporate, professional Web zine. *Enterzone* is a hyperzine of writing, art, and new media. [Exp. #140.]

Enzian Theater
http://magicnet.net/enzian/ Home page of Enzian Theater, film center for Central Florida: special event info, film-related links. [Exp. #141.]

FaxBox Network
http://voyager.via.net/netbiz/faxbox.html How to have your own fax-on-demand box and make money. [Exp. #142.]

Film Analyst On-Line
http://www.kaiwan.com/~stussy/taussig/film01.html A thoughtful analysis of popular and classical movies and the impact on popular culture. [Exp. #142.]

First Virtual
http://www.fv.com/access/by-seller/Internet_Info "New on the Net" report: includes all noteworthy registrations of commercial domains registered with InterNIC. [Exp. #138.]

FLASHERS
http://www.armory.com/~grape/ Daily comics by Elliot Feldman. Bring your own trenchcoat. [Exp. #142.]

Flash Sheridan's Newton Software
http://www.rahul.net/flasheridn/ Newton Register allows users to pay for shareware via email. Disabler is a startup manager. [Exp. #139.]

Focus on Africa
http://login.eunet.no/~presno/sample4.html Connectivity issues, sources of information about Africa for various applications (news, Web, and gopher servers). [Exp. #138.]

Fountainhead Internet Systems WWW Site
http://www.earthlink.net/~fountainhead Designers of World Wide Web sites. Host of the LA Superstation. LA Advertising. [Exp. #141.]

Four Leaf Clover
http://204.188.129.2/netbiz/fourleaf.html How to play the Canadian lottery and make money every month. [Exp. #142.]

Future New$
http://futurenews.com/wallstreet Newsstand focused exclusively on forecasting Wall Street and global financial markets. [Exp. #138.]

Galaxy Entertainment Network
http://www.power.net/galaxy Providing entertainment information, showcasing worldwide talent, business opportunities, programming, and weekly Internet funnies. [Exp. #142.]

Girvies Davis Home Page
http://www.mcs.net/~bkmurph/girvies.htm Home page of Girvies Davis, Illinois death row inmate. Clemency petition, articles, "evidence," pictures, audio, more. [Exp. #142.]

Global Campus
http://www.csulb.edu/gc/ Distributed database containing new media for use in enhancing learning and teaching. For educational use. [Exp. #140.]

Global Communications Group
http://www.globalcom.com/global Internet consulting, training, seminars, Web page production. Ten years Internet R&D experience. [Exp. #140.]

Global Futures Foundation
http://www.quiknet.com/globalff/globalfu.html Environmental Web site for businesses, with publications and Future 500 CEO resource efficiency roundtable. [Exp. #142.]

GolfWeb
http://www.golfweb.com Complete source for everything related to golf on the WWW: results, statistics, live reporting, course information, more. [Exp. #141.]

Graffiti Wall
http://www.lh.com/cgi-bin/wall Hot tips and interesting places on the Web. Check it out or share some of the places you have found. [Exp. #140.]

Grant Tracker Home Page
http://www.rahul.net/kendric Software that keeps researchers from overspending their research grants. Download demos: DOS, Win, Mac. [Exp. #141.]

Greenbelt Alliance
http://www.greenbelt.org/gba Everything about the Bay Area's greenbelt of open space: maps, outings, issues, factsheets. Fight urban sprawl! [Exp. #143.]

Greenpeace Climate Homepage
http://www.greenpeace.org/ Berlin Climate Summit info, FAQ on climate change, links to other climate info on the Net, more. [Exp. #141.]

Harmony Central Music Pages
http://harmony-central.mit.edu/ Resources and links for the musician, including guitar, bass, effects, MIDI, keyboards, software, and more. [Exp. #142.]

Hawaii Made Easy!
http://www.aloha.com/~optunehi Learn about one of the healthiest states, and one of the safest. Many businesses and jobs. [Exp. #139.]

homepage.html
http://www.hooked.net:80/users/tpitre/homepage.html Personal page for Pitre and MSRI, Inc. [Exp. #141.]

Home Pages, Inc.
http://www.homepages.com/ A full-service WWW authoring firm and creators of the World Wide Yellow Pages™ at *http://www.yellow.com/* . [Exp. #140.]

Homes & Open Houses
http://openhouses.com Your comprehensive source for real estate information on the Internet. [Exp. #140.]

The Hong Kong Business Directory
http://FarEast.Com/HongKong/directory.html Source products, find manufacturers, locate importers and exporters, find hotels, services, suppliers, buyers, even individuals in Hong Kong. [Exp. #138.]

Hooked
http://www.hooked.net Hooked is an Internet ser-

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P5 133MHz $2799

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- PCI Enhanced IDE HDD Controller
- PCI VGA Card w/2MB Diamond Stealth
- 2 Serial, 1 Parallel, 1 Game Port
- 101 Enhanced Keyboard
- MIDI Tower Case w/250 Watt
- 14.400 Fax Modem

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DOUBLE SPEED	QUAD SPEED
• 16bit Sound Card	• 16bit Sound Blaster
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M.I.G. 486 VL-BUS SYSTEM

486DX2-66MHz $850

486DX4-100MHz $1050

- 486DX2-66MHz VLB w/256K Cache
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- 540MB IDE HDD
- Windows Accelerator VLB w/1MB Exp. to 2MB
- 14" 1024 x 768 .28 Super VGA Monitor
- 2 Serial, 1 Parallel, 1 Game Port
- 101 Keyboard
- Hi-Resolution Mouse
- Mini Tower Case w/230 Watt

AMD 486DX2-66MHz	$829
AMD 486DX2-80MHz	$849
AMD 486DX4-100MHz	$889

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ADD ON BOARD AND CONTROLLERS

AT Super IDE IO adapter (dual FDD & HDD, 2S, 1P, 1G)	$13
Vesa Local Bus Super IDE & IO	19
PCI IDE adapter	25
PCI IDE w/IO (1655 UR)	49
PCI SCSI adapter	69
AT IDE w/16550 Hi-Speed IO	29
VLB IDE w/16550 Hi-Speed IO	43
VLB SCSI w/16550 Hi Speed IO	119
Adaptec AHA-1522K SCSI floppy/hard adapter card	89
Adaptec AHA-1542CF SCSI bus master adapter card	189
Adaptec AHA 2742TK EISA SCSI bus master host adapter card	339
Adaptec AHA-2842K VLB SCSI bus master host adapter card	199
Adaptec AHA-2940 PCI wide SCSI-3 host adapter card	249
Adaptec AHA-2940 PCI fast SCSI-2 host adapter card	207

Please call for pricing on GSI, Promise, Bus Logic, Boca, DTC, Ultrastor, Future Domain, Always, Tekram and Q Logic controllers.

CD-ROM DRIVES

Creative Labs Discovery CD 18 kit new edition	$255
Creative Labs Digital School House 16 kit	250
Creative Labs 4x CD kit with 16 titles	399
Creative Labs Entertainment CD 16 kit	Call
Creative Labs Multimedia Office kit	515
Acer 2x Internal IDE	98
Mitsumi 4x Internal IDE	175
NEC 510 3x Internal SCSI	195
NEC 511 4x Internal SCSI	319
Panasonic 562B Internal 2x	117
Plextor 4x Internal SCSI OEM	299
Plextor 6x Internal SCSI OEM	625
Sanyo CDR-94A 2x Internal	105
Sony 55E 2x Internal IDE	109
Toshiba 3502 4x Internal IDE	185
Toshiba 3602 4.4x Internal SCSI	349
Teac 55A 4x Internal IDE	179
4 CD Titles	12
14 CD Titles	37
16 CD Titles	42

Please call for pricing on Texel, Philip, Pioneer and any other unlisted models.

CHASSIS (CASES)

Pac AC-21 mini tower case w/230w power supply	$37
Pac CS-11 desktop case w/200w power supply	43
Pac CS-21 mini tower case w/230w power supply	43
Pac CS-31 mid tower case w/230w power supply	59
Pac CS-41 full tower case w/230w power supply	79

FLOPPY DISK DRIVES

Safonic 1.2mb (5.25")	$39
Safonic 1.44mb (3.5")	29
Teac 1.2mb (5.25")	44
Teac 1.44mb (3.5")	34
Teac dual 1.2mb (5.25")/1.44mb (3.5")	85

HARD DISK DRIVES

Conner CFS 425A 425mb IDE	$165
Conner CFS 540A 540mb IDE	179
Conner CFA 850A 850mb IDE	259
Conner CFA 1275A 1.2GB IDE	359
Conner CFP 1080S 1.08GB SCSI-2	459
Conner CFA 1060SW 1.08GB Wide SCSI-3	529
Maxtor MX-7540A 540mb IDE	185
Maxtor MX-7850A 850mb IDE	249
Maxtor MXT-71260A 1.2GB IDE	379
Quantum 420mb IDE	169
Quantum 540mb IDE	209
Quantum 540mb SCSI	239
Quantum 730mb IDE	249
Quantum 1080S 1.08GB SCSI	529
Quantum 2GB SCSI	875
Samsung 420mb IDE	162
Samsung 560mb IDE	174
Western Digital AC2420 420mb IDE	179
Western Digital AC2540 540mb IDE	215
Western Digital AC2700 730mb IDE	239
Western Digital AC2850 850mb IDE	265
Western Digital AC31000 1GB IDE	352
Western Digital AC31200 1.2GB IDE	379

Please call for pricing on Digital(DEC), Micropolis, Mini-Stor and any other unlisted models.

KEYBOARDS

Focus 2001 w/hard dust cover	$32
Focus 6000 (soft click)	23
Focus 7000 w/trackball	35
Focus 8000 (calculator, soft click)	36
Focus 9000 (programmable calculator)	46
Fujitsu 4720 (click)	39
Microsoft Natural Hi-Tech	89
Acekey 101	15

MEMORY

Simm 1x3 (1mb) 30pin	$42
Simm 1x9 (1mb) 30pin	43
Simm 4x3 (4mb) 30pin	135
Simm 1x32 (4mb) 72pin	150
Simm 2x32 (8mb) 72pin	289
Simm 4x32 (16mb) 72pin	489
Simm 8x36 (32mb) 72pin	999
Simm 16x36 (64mb) 72pin	2299

MICROPROCESSORS (CPU)

Intel Pentium 100MHz	$725
Intel Pentium 90MHz	539
Intel Pentium 75MHz	359
Intel 486DX4-100MHz	259
AMD 486DX4-100MHz	219
AMD 486DX2-80MHz 3V	169
Intel 486DX2-66MHz	165
Intel 486DX-33MHz	139
Intel 486SX-33MHz	85
Pentium CPU fan	13
486 CPU fan	8

MODEMS

US Robotics Sportster 14.4 Internal data/fax	$98
US Robotics Sportster 14.4 External data/fax	113
US Robotics Sportster 28.8 Internal data/fax	219
US Robotics Sportster 28.8 External data/fax	239

Please call for pricing on Boca, Hayes, Supra and Zoom modems.

MONITORS

14" Aurora .28 N-I monitor	$209
15" Aurora .28 N-I monitor	329
Arcus 14" mono	80
Arcus 14" mono SVGA	98
MAG DX-15F 15" SVGA N-I (Green)D	319
MAG DX-17F 17" SVGA N-I (Green)D	589
MAG MX	CALL
Sony 15SF Multiscan 15" SVGA N-I (Green)D	435
Sony 17SF Multiscan 17" SVGA N-I (Green)D	855
Viewsonic 15G 15" SVGA N-I (Green)D	365
Viewsonic 15 15" SVGA N-I (Green)D	389
Viewsonic 17G 17" SVGA N-I (Green)D	674
Viewsonic 17 17" SVGA N-I (Green)D	785
Viewsonic 20G 20" SVGA N-I (Green)D	1199
Viewsonic 21PS 21" SVGA N-I (Green)D	1585

Please call for prices on NEC, Sony, Nanao, Nokia M7 and any other unlisted models.

SYSTEM BOARDS

Intel Pentium PCI 90 w/256K cache	$339
SIS Pentium PCI 90 w/256K cache	185
SIS Pentium PCI 90 w/256K cache (includes onboard IDE & IO interface)	239
OPTI Pentium PCI/VLB 90 w/256K cache	199
OPTI Pentium PCI/VLB 60/66 w/256K cache	179
OPTI Mini 486 VLB DX4 w/256K cache (72pin)	99
OPTI Mini 486 VLB w/256K Cache (Combo)	97

Please call for pricing on AMI, Asus, and Micronics motherboards.

TAPE BACKUPS

Colorado DJ-20 internal 250mb	$133
Colorado DJ-30 internal 350mb	159
Colorado DJ-25 internal 700mb	275
Colorado JT-20 external 250 parallel	265
Colorado JT-30 external 350 parallel	307
Colorado AB-11 external adapter kit	38
Colorado KE-09 external drive kit	75
Colorado FC-10 500kb/s - 1mb/s adapter kit	80
Colorado 1GB and 2GB internal and external	CALL
Conner Tapestor 250 internal	135
Conner Tapestor 420 internal	175
Conner Tapestor 850 internal	275

Please call for pricing on DEC, Etabyte, I-Omega, Summite, Tecmar and Wangtek tape backup systems.

VIDEO CARDS

Trident 9000 VGA w/512K	$35
Trident 8900 SVGA w/1mb	58
Trident 9440 VLB or PCI SVGA w/1mb	69
Cirrus Logic 5424 VLB SVGA w/1mb	69
Diamond Stealth 64 VLB w/2mb	175
Diamond Stealth 64 PCI w/2mb	175
Diamond Viper SE VLB w/2mb VRAM	289
Diamond Viper SE PCI w/2mb VRAM	279
Diamond Stealth 64 VLB w/2mb VRAM (expandable to 4mb)	275
Diamond Stealth 64 PCI w/2mb VRAM (expandable to 4mb)	279
ATI Mach 64 VLB w/2mb DRAM	179
ATI Mach 64 PCI w/2mb DRAM	177
ATI Mach 64 VLB w/2mb VRAM	269
ATI Mach 64 PCI w/2mb VRAM	269
ATI Mach 64 VLB w/4mb VRAM	465
ATI Mach 64 PCI w/4mb VRAM	449

Please call for prices on Matrox, Number Nine, Orchid, Hercules and any other unlisted models.

PRINTERS

HP 540	$279
HP 560C	449
HP 4L	519
Epson Stylus Color	499

Please Call For Pricing On Epson, Okidata, Canon & Panasonic Printers

MOUSE

Z-Nix Mouse	$8
Microsoft Mouse	29

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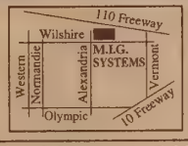

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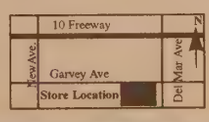

NOVELL.

Web Page Listings *continued...*

vice provider using the amazing Internaut software. [Exp. #139.]

HTML To ICADD/Braille
http://www.ucla.edu/ICADD/html2icadd-form.html This form allows valid HTML to be transformed to ICADD and/or Braille for print-impaired users. [Exp. #142.]

Hypnotherapy by Rosa Kitchen
http://www.he.tdl.com/~kitchen Calm, calmer, calmest. Develop a solid, unshakable personal power. Heal from within through hypnosis. [Exp. #143.]

I-Comm: Web Surfing Without SLIP/PPP
http://www.best.com/~icomm/icomm.htm I-Comm is a full-featured graphical WWW browser which doesn't need SLIP/PPP connections. [Exp. #141.]

Imago Dei
http://www.art.net/Studios/Visual/Jaxun/homepage.html An all-digital incarnation of one computer support tech's emerging Muse... [Exp. #141.]

Impact Online
http://www.internex.net/ impact Interactive access to nonprofit organizations, topical issues, and information on a range of social issues. [Exp. #142.]

index.html
http://www.manual3.com/manual3 Manual 3, Inc. is a 13-year-old technical writing firm serving the technology industry. [Exp. #140.]

IndustryNET
http://www.industry.net Keeping in touch with the computer industry. Product and service information including local suppliers. [Exp. #140.]

Infolink Information Center
http://www.infolink.net/ Fastest-growing Internet service provider in Hong Kong. See how to get connected in Hong Kong. [Exp. #139.]

infowerks
http://www.best.com/infowerk/ Cool students/Web consultants page, artistic, interesting connections. [Exp. #139.]

The Institute for Global Communications Progressive Directory
http://www.igc.apc.org [Exp. #138.]

Intelligent Media
http://smartworld.com/intmedia Full-service interactive multimedia production company, service bureau. [Exp. #141.]

The Interactivist
http://199.172.178.200 A place that facilitates Internet social education and activism. Also the home of Free Burma. [Exp. #141.]

Interactivist/Go Digital Online
http://www.godigital.com Go Digital Interactive Magazine's home page: preview of CD-ROM, additional materials, subscribe, send stuff for inclusion, etc. [Exp. #141.]

InterBIZnet
http://www.ibiznet.com/ We provide business in Southern California with Web design, hosting online marketing and Internet expertise. [Exp. #143.]

Internal Revenue Service
http://www.ustreas.gov/treasury/bureaus/irs/irs.html Provides tax forms, answers to frequently asked questions, where to get more help, and where to file. [Exp. #139.]

The International Home Exchange Network
http://www.magicnet.net/homexchange Listings of home exchange opportunities, local cost vacation rentals, bed & breakfasts, "mom and pop" hotels, and more. [Exp. #143.]

International Netsuke Kenkyukai Society
http://www.hooked.net:80/users/yukiyama/ Information on Netsuke Kenkyukai Society and collecting netsuke (Japanese antique toggles). [Exp. #141.]

International Paperweight Society
http://www.armory.com/~larry/ips.html A nonprofit organization dedicated to furthering the awareness of fine glass paperweights. A Mecca of information. [Exp. #142.]

Internet Health Resources
http://www.ihr.com Extensive and practical health resource information for Internet users. [Exp. #142.]

Internet Literacy Consultants
http://www.matisse.net We help people understand and use the Internet and related technologies to accomplish their goals, via seminars and consulting. [Exp. #139.]

The Internet MainStreet
http://www.mainstreet.net ISDN and leased line Internet provider for Silicon Valley. Cool eclipse photo. [Exp. #140.]

Internet Presence Providers
http://www.internex.net/ipp Providing business with complete Web site design. Focusing on real estate, art, investments, and online malls. [Exp. #140.]

Internet Roundtable Society
http://www.IRSociety.com Providers of business WWW services: home pages, promotion, etc. [Exp. #139.]

InterNex•Tiara
http://www.internex.net High-speed ISDN Internet access provider. Provide information about ISDN, access options, products, and services. [Exp. #140.]

InterNotes
http://www.tbo.com/notes.html [Exp. #138.]

InVision Consulting
http://www.iconsulting.com/ Leading solution provider of Web page development, Internet connectivity, training, etc. We do it all! [Exp. #142.]

IRIS Media Systems
ftp://ftp.netcom.com/pub/rl/rlai/www/home.html Home of Xantippe—The Information Structuring Workbench, a Windows hypertext/hypergraphics authoring environment for HTML files. [Exp. #141.]

ISDN*tek
http://www.isdntek.com PC-based hardware for high-speed ISDN access. [Exp. #142.]

Japan Summer Program
http://www.kaiwan.com/~stussy/japan95/japan11.html Information about studying photography or the Japanese language in Japan during the summer of 1995. [Exp. #142.]

Jeff's Homepage—The Quam
http://www.emf.net/~quam Jeff's Homepage and link to the Pirate Squid Club. Lots of useless nonsense. [Exp. #141.]

John Perry's Home Page
http://www.perry.com/ I'm B1FF!!! (a film festival), The Liberal Materialists (my band), photos, poetry, and much more. [Exp. #139.]

Jow's trueSpace Home Page
http://csual.cs.ucla.edu/truespace Provides images, utilities, and links of interest to the Caligari trueSpace user. [Exp. #140.]

Karma Kagyu Buddhist Cyber Center
http://144.92.74.130 Introducing Karma Kagyu lineage of Tibetan Buddhism, main teachers, teaching and meditation schedules, presenting quarterly magazine. [Exp. #142.]

KBBS Online
http://kbbs.kbbsnet.com Interesting Web site links, WWW business marketing info, online service info. [Exp. #142.]

Kerry's Connection
http://www.crl.com/~zallar/index.html Comedy Impressions—live and voice mail, QB Experience musical group, SRV School of Performing Arts. [Exp. #142.]

LatinoWeb
http://www.catalog.com/favision/latnoweb.htm Provides a platform for Latino organizations to make their information available to the Internet. [Exp. #141.]

Launch Point Internet Service
http://www.lpoint.com How to get a Web site for your company. [Exp. #142.]

The Libertarian Party, America's Third Party
http://www.lp.org/lp/ [Exp. #138.]

Links From The Underground
http://raptor.swarthmore.edu/jahall/ Original writings, anecdotes, and links with commentary convey a Net and world view on the Web. Coordinated craziness! [Exp. #140.]

Links Golf by Bengtson Company
http://www.well.com/www/bengtson/golf.html Northern CA golf course directories, travel lodging and dining information, golf product information, and photos. [Exp. #142.]

LinkStor Home Page
http://www.linkstor.com PC network and storage reseller in Silicon Valley. [Exp. #143.]

Loser Love Songs
http://www.slip.net/~mbutler/index.html Home of San Francisco power-pop band the Flex-a-Pleasers. Contains audio of every song in the catalog, more. [Exp. #143.]

Makin' Waves Studio
http://cyberzine.org/html/Waves/wavepage.html Aussie-style humor abounds, complete with free .wav sound files for download. Commercial enquiries welcome. [Exp. #138.]

Marine Jewelry by Robert Straight
http://www.stw.com/rls/rls.htm Ocean life rendered in fine gold jewelry. [Exp. #142.]

Mark Holt's Home Page
http://www.sun.com/sunsoft/cdware/mark.html A collection of cool and unusual Web sites. [Exp. #140.]

Match.Com
http://www.match.com "We met on the Net!" Thanks to Match.Com, the online dating service for the '90s. [Exp. #140.]

Mexico Out of Balance
http://www.igc.apc.org/nacla/mexico.html Hard-to-find, in-depth information and analysis concerning political, economic, labor, and trade issues in Mexico. [Exp. #138.]

Midnight Special Bookstore Home Page
http://msbooks.com/msbooks Midnight Special's motto is taken from Bertolt Brecht: "Hungry man, reach for the book: it is a weapon." [Exp. #141.]

The Millennium Whole Earth Catalog
http://www.well.net/mwec/ 29 pages from the *Whole Earth Catalog* transformed into about 170 Web pages. [Exp. #142.]

Minor Leagues, Major Dreams
http://www.deltanet.com/minorleagues Minor league baseball, hockey, arena football, Indy 500 sports apparel retail sales. [Exp. #140.]

Modulus Graphite
http://www.dnai.com/~modulus Catalog of high-end basses and guitars. [Exp. #138.]

Motorcycle Online
http://motorcycle.com/motorcycle.html Anything and everything to do with motorcycles. [Exp. #139.]

Napa Valley PC Users Group
http://community.net/~stevefc/index.html The home page for the Napa Valley PC Users Group. [Exp. #141.]

The National Center for Employee Ownership
http://www.esop.org/~nceo/ Provides information on employee ownership in the US and elsewhere, and lists publications and events. [Exp. #143.]

Natural World
http://www.cdnet:com/naturalworld Natural World makes 100% nontoxic, all-natural, chemical-free products for cleaning, infant care, nutrition, and pet care. [Exp. #143.]

NetBiz
http://204.188.129.2/netbiz/netbiz.html or *http://voyager.via.net/netbiz/netbiz.html* Your advertising gateway to the Internet. Home pages and online advertising worldwide. [Exp. #140.]

Netsurfer Digest Home Page
http://www.netsurf.com/nsd Netsurfer Digest is a free, email-delivered e-zine bringing cyberspace directly to your mailbox. [Exp. #140.]

NetWings
http://netwings.com

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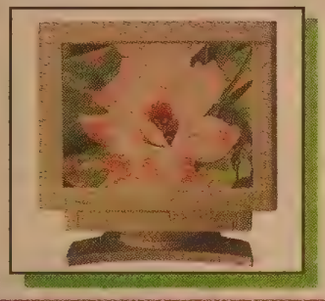

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- Universal Power Supply 110/220
- 24 Microprocessor Screen w/Factory Presetting
- Tilt Rotation Control to Position the Picture Without Tilt Distortion Effected by Earth Magnetic Field
- Pincushion Adjustment
- *MPR II Low Radiation Available as an Option*

SRC-1451/1452

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SRC-1702/1702L 17" FLAT SQUARE

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- 20 Programmable Digital Control Memory Settings Available in SRC-1702 for Image Sizing and Centering
- Accurate Color Control Designed in SRC-1702 to Make the Displayed Color Match Closely the Printer Output
- Horizontal Frequency: 24-82KHz Continuous
- 0.26mm Dot Pitch Non-Glare, F.S.T. w/Double Focus Gun, CRT Type
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SRC-1451 SUPER VGA I

- Horizontal Frequency: 30-38KHz
- Resolution: Maximum 1024x768 (Interlaced) 0.28mm/0.39mm CRT
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- Ms Dos 6.2 & Windows 3.1

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- VLB SVGA 2MB Vram Graphic
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- 1.44MB Floppy Drive
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- 101 KeyBoard & Mouse
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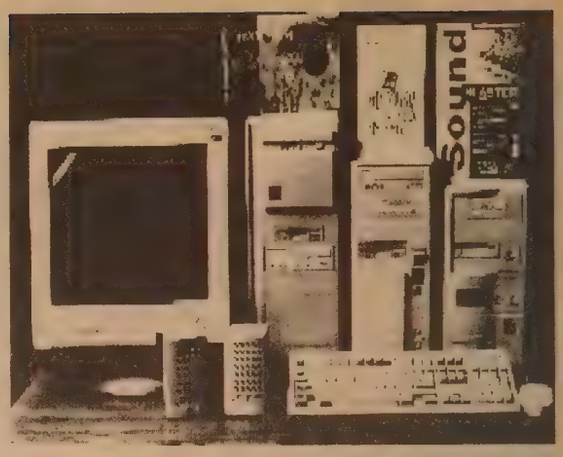

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- 101 KeyBoard & Mouse
- Ms Dos 6.2 & Windows 3.1
- 2x EIDE CD-ROM Drive
- Sound Blaster 16, 10Watt Speakers
- Microsoft Multimedia CD (Encarta95, MS Works 3.0, Money & Games)
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B 16MB RAM, 850MB EIDE HDD
15" .28d Digital Display
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C 16MB RAM, 1.2GB EIDE HDD
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486DX2/4 w/ 3PCI/ 16MB Green $575
Same as above w/ 80 (IBM) CPU $675
Same as above w/ 100 (AMD) CPU $725
Pentium w/ PCI/ 8MB RAM/Green ...$395
Same as above w/ 75MHz Intel $675
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Same as above w/ 100MHz Intel $875
P5 w/ Intel Triton ChipSet/ 32MB $1095
Same as above w/ 75MHz Intel $1365
Same as above w/ 90MHz Intel $1425
Same as above w/ 100MHz Intel $1575
Same as above w/ 120MHz Intel .....$call

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Maxtor 545MB Enhence IDE 12ms $175
Maxtor 850MB Enhence IDE 12ms $225
Maxtor 1.2GB Enhence IDE 12ms $295
WD Caviar 850MB EIDE 11ms 3yrs $225
WD Caviar 1.2GB EIDE 10ms 3yrs $345
CONNER 1GB SCSI2 9.5ms 5yrs $455

CONTROLLERS (OEM Version)
NCR 810 SCSI2 PCI $95
ADAPTEC 1522 SCSI2 ISA $95
ADAPTEC 1542CF SCSI2 ISA Bus Master..$185
ADAPTEC 2842 SCSI2 VLB $195
ADAPTEC 2940 SCSI2 PCI $215
ADAPTEC 2940W Wide-SCSI2 PCI $255

VIDEO CARD

Media Visions Pro Graphic VRAM card
Pro1024 2MB Vram 16.8m Color at 1024 VLB $145
Pro1280 4MB Vram 16.8m Color at 1280 VLB $275

Diamond Video Card
Stealth 64 Video 1/2MB Dram PCI $125/ 175
Stealth 64 Video 2/4MB Vram PCI .....$275/ call
Viper SE 2/4MB Vram PCI $255/ 355

Spider Graphic Video Card
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Spider Turantula 64 S3 964 2/4MB Vram PCI ..$245/ 345
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Online Guide

Web Page Listings *continued...*

NetWings is a software package that turns a small Macintosh into a full Internet server. [Exp. #143.]

Network World
http://voyager.via.net/ netbiz/network.html The international directory of MLM and network marketing opportunities. [Exp. #141.]

New Wave Culture Plaza Inc.
http://www.rahul.net/newwave/newwave.html A mail order company dedicated to Chinese culture. Chinese CDs, LDs, CD-ROMs... [Exp. #140.]

Northern California Guide To Minor League Baseball
http://www.webcom.com/~rmd/baseball/minorleague.html Schedules, directions, ticket info, etc. for San Jose and Stockton. Coming soon: Modesto, Salinas, Sonoma. [Exp. #140.]

The North Pole
http://northpole.net Browse the North Pole; read messages from Santa, his elves, the reindeer; North Pole weather reports. [Exp. #138.]

Novell Service & Support
http://www.aimnet.com/~yungi/lansol.html Novell network specialists—CNE. We offer Novell-authorized network installation, service, and support. [Exp. #143.]

Obscure Research Labs
http://140.249.8.212/ORL/ Specializing in: UFOs, time travel, paraphysics, matrix technology, disinformation tracking, all the answers. [Exp. #143.]

OCSUG Home Page
http://halide.acs.uci.edu/ Home page of the Orange County Sun User Group. [Exp. #143.]

The Omega Transmissions—A Techno-Thriller
http://one.mind.net/omega/index.html An action-packed adventure about NASA's SETI project (Search for Extraterrestrial Intelligence). [Exp. #140.]

The Online Islamic Bookstore
http://www.sharaaz.com Quality books, CD-ROMs, tapes, software on Islam. View screenshots and descriptions of products. Order online. [Exp. #143.]

The Online World Monitor
http://login.eunet.no/~presno/monitor.html A free, bimonthly online product for supporters of *The Online World* resources handbook; subscriptions available. [Exp. #141.]

The Online World—online resources handbook
http://login.eunet.no/~presno/index.html Broadcasting schedules for news in many languages, world travel guides, international affairs, health, much more. [Exp. #142.]

Only Multimedia, Inc.
http://www.webcom.com/~only A widely known, super hot WWW site that your company can be a part of! (818)753-0037. [Exp. #142.]

Open Book
http://futon.sfsu.edu/%7etalon Open Book presents "Women's Journals," an interactive piece that was created exclusively for the Web. [Exp. #141.]

OpenMarket
http://directory.net/netinfo "New on the Net" report: includes all noteworthy registrations of commercial domains registered with InterNIC. [Exp. #138.]

PacNetWeb
http://www.pacnet.com Product and ordering information for Pacific Internet, supplier of products and services for electronic commerce and communications [Exp. #143.]

Palookaville Hats
http://www.primenet.com/~hanibal/hat.html Cool hats for the Global Village Idiot in all of us. [Exp. #141.]

ParentsPlace.Com
http://www.parentsplace.com/ The parenting resource center on the Web: reading rooms, chat, shopping mall with parenting and childcare products. [Exp. #143.]

Patrick Salsbury's Home Page
http://www.visionware.com/pat.html 110+ starting points for exploring the Web, HTML URLs, and me on a rock. :-) [Exp. #140.]

PCTravel™
http://www.pctravel.com or *http://www.nando.net/pctravel.html* Real-time online air reservation and ticketing service with encryption and free overnight delivery of tickets. [Exp. #143.]

Phil Gramm for President Campaign
http://www.gramm96.org Speeches and articles from the campaign trail intermixed with graphics, audio and video clips, and more. [Exp. #143.]

PhoenixWeb
http://www.ptltd.com BIOS, plug and play SW, PCMCIA SW, Eclipse SW for desktop, portable, and handheld PCs. [Exp. #140.]

Pikes Peak Cam
http://www.softronics.com A spectacular, unobstructed view of Pikes Peak, updated every two minutes, from the roof of Softronics. [Exp. #142.]

Plug Into AVCom
http://siesta.packet.net/avcom/ Total solutions Web source. We will help you deliver your business concepts via the WWW. [Exp. #143.]

QuoteCom
http://www.quote.com/ Stock quotes, business news, financial market data

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310-577-5810 modem password: newuser

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SLIP/PPP access, includes shell and 50 hours SLIP/PPP access	$19.95
150 hours SLIP/PPP access	$34.95

Online Guide

Web Page Listings *continued...*

for investors. [Exp. #139.]

RANDY KSAR'S HOME PAGE
http://www.mvhs.edu/~rksar Gives links and documents to those in need of a quick overview of the Web. Also offers Web services. [Exp. #138.]

RESUMES ONLINE
http://voyager.via.net/net-biz /resumes.html The place for job seekers to tell the world market of their availability. [Exp. #141.]

THE RIVENDEL PAGES
http://umbc8.umbc.edu/akhatt1/Rivendel.html Multiuser chat sites dedicated to communications for global understanding and creative expression. Come visit us. [Exp. #142.]

ROCK AND ROLL DIGITAL GALLERY
http://www.hooked.net/julianne/index.html A digital gallery featuring poster art and images with rock 'n' roll as the theme. [Exp. #143.]

ROCK AROUND THE WORLD™
http://www.ratw.com Rock Around the World™ radio shows and newspapers: music, interviews, news—the '70s through today. [Exp. #141.]

RTFM WORLD
http://www.dnai.com/~cthomas/rtfm RTFM is an occasional rock 'n' roll band of Sybase tech support people. [Exp. #140.]

SALE@EXODUS.COM
http://www.exodus.com The complete solution to Internet access for business, education, and government applications. [Exp. #142.]

SALSA EXPRESS
http://www.stw.com/se/se.htm Southwestern culinary catalog. One-stop shopping for your salsa and hot sauce needs. [Exp. #142.]

SAN FRANCISCO BAY AREA AND BEYOND
http://www.hyperion.com/ba/sfbay.html Pointers to local attractions, entertainment, community services, employment, newspapers, sports, dining, and more. Updated weekly. [Exp. #140.]

THE SAN FRANCISCO NETWORK
http://www.SF.net Growing collection of Bay Area databases and newsletters including restaurants, wineries, entertainment, and commercial locations. [Exp. #138.]

SAN FRANCISCO WEB
http://www.sfweb.com Body, mind, spirit, personals, neighborhoods, and, of course, business listings. [Exp. #142.]

SAN JOSE STATE UNIVERSITY CONTINUING EDUCATION
http://conted.sjsu.edu/ Degree credit, certificate, and professional development courses open to all adults—on and off campus. [Exp. #142.]

SAN JOSE SYMPHONY HOME PORT
http://webcom.com/~sjsympho/ Meet Maestro Leonid Grin and the 89 musicians of the San Jose Symphony. [Exp. #139.]

SAN MATEO TIMES
http://www.baynet.com/smtimes/index.html San Mateo County's only daily newspaper. [Exp. #139.]

THE SEAMLESS WEBSITE™
http://tsw.ingress.com/tsw/ Advertisements for law firms and legal services providers; law review articles and other legal information. [Exp. #140.]

SEGA WEB
http://www.segaoa.com Product information and graphics from the interactive king. Contests for prizes. [Exp. #140.]

SEMINARS IN USABLE DESIGN
http://www.info-design.com/usable.design Seminars in online information design, UI design, and usability testing. Leaders include William Horton. [Exp. #141.]

SENSATIONAL SEMINARS
http://www.onramp.net/sensational Sensational Seminars, Inc. "We Make Education An Experience" presents "Hollywood In Cyberspace" Monday, April 3, in LA. [Exp. #139.]

SHARROW ADVERTISING & MARKETING BIZINFO RESOURCE CENTER
http://www.dnai.com/~sharrow/register.html Advertising and marketing reports and issues, mail order catalogs, ad parodies, humor and sarcasm, digital age issues and essays. [Exp. #142.]

THE SHAW FESTIVAL
http://www.cyberplex.com/CyberPlex/Arts/Shaw/Shaw.html Information about shows currently being performed by the only company that specializes in plays written during G.B. Shaw's lifetime. [Exp. #138.]

SK WRITERS HOME PAGE
http://www.skwriters.com A placement agency specializing in technical pubs, marcom, and training professionals. [Exp. #141.]

SOFAL'S PLACE
http://www.csua.berkeley.edu/~sophal Sophal's home page has many links to Cambodian-related home pages, not to mention his favorite quotations. [Exp. #140.]

SOLUTIONS SEMINARS
http://www.best.com/~solution Seminars for technical publications and training professionals.

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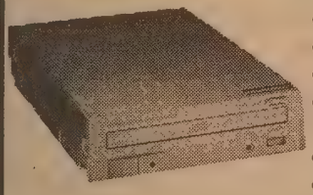

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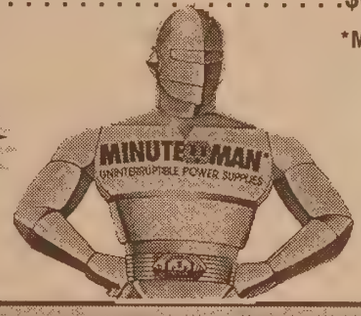

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Online Guide

Web Page Listings *continued*

Documentation, online information. [Exp. #142.]

SpeedGate Communications
http://www.speed.net Complete Internet service provider for the Orange County/Long Beach area. Information on services and prices. [Exp. #142.]

The SRMC Spider Web
http://sweb.srmc.com/ Full-service ISP-WWW, 28.8, ISDN through T-1, as well as on-site support and maintenance. [Exp. #139.]

Stanford Center For Tuberculosis Research
http://molepi.stanford.edu Research at Stanford University tracking the spread of tuberculosis in San Francisco. [Exp. #140.]

Stanford University Bechtel International Center
http://fuji.stanford.edu/icenter/icenter.html Programs and services offered by I-Center for Int'l. students/scholars, families, and students who want to travel abroad. [Exp. #142.]

Starbox Grand Central
http://www.starbox.com/starbox/ Contact Tecnation Digital World for your own Starbox™ WWW site and inclusion in the intuitive Starbox directory. [Exp. #141.]

Star Trek: Voyager
http://voyager.paramount.com Latest Web site by Paramount promotes new Star Trek show and connects studio with the fans. [Exp. #138.]

SuperBusiness NET
http://www.sbusiness.com Web pages, ftp and Internet services for business. We will be featuring secure transactions via the Web. [Exp. #140.]

Sybase Home Page
http://www.sybase.com Info on products and services; views of the San Francisco Bay by clicking on BayCam button. [Exp. #139.]

Symmetric Technology
http://www.Symmetric.com Corporate Web page address. [Exp. #141.]

The Syndicate
http://www.centcon.com/~billman/syn.html Devoted to helping those who seek financial information. Many articles, pointers to other investment information sites. [Exp. #142.]

The Tax Prophet
http://www.taxprophet.com The Tax Prophet deciphers the Internal Revenue Code for taxpayers and professionals alike. [Exp. #141.]

Tecnation Digital World
http://www.tecnation.com Tecnation Digital World provides industrial design for the Information Superhighway and develops its own products. [Exp. #143.]

TELOS, The Electronic Library Of Science
http://www.telospub.com/ TELOS publishes scientific titles with electronic components: CD-ROMs, diskettes, or files via Internet. It's cool. [Exp. #140.]

Things I'd Like to See in CyberSpace
http://www.clark.net/pub/journalism/wishes.html A simple home page to collect the thoughts and wishes of those using the Internet. [Exp. #139.]

THOMAS
http://thomas.loc.gov US House of Representatives: full text of all bills of 103rd Congress, email addresses, more. [Exp. #139.]

Tim Ho
http://cad.ucla.edu:/~ho A serialized comic strip about a PC computer mouse. [Exp. #139.]

Tom Curtis's "Wide World of Art"
http://www.slip.net/~tommy999 Evolving art-based home page including: multimedia, galleries, museums, sound, video, and public and personal art sites. [Exp. #142.]

Tradenet
http://voyager.via.net/netbiz/tradenet.html The international directory of world trade opportunities and offerings. [Exp. #141.]

TV Net
http://tvnet.com/TVnet.html TV Net provides information on broadcast/cable TV stations throughout the US and the world. [Exp. #138.]

UC Riverside, California Museum of Photography
http://cmp1.ucr.edu Historical photographs, contemporary media arts, and children's projects are at the UCR/California Museum of Photography. [Exp. #140.]

UC Santa Cruz Extension Catalog
http://www.ucsc.edu/unex Quarterly, UCSC Extension provides its catalog of 500 courses, as well as events and information. [Exp. #141.]

UNCAT: The Catalog of UNCATaloged Titles
http://www.sapphire.com/UNCAT/ Brochures, books, catalogs, newsletters, videocassettes, audio cassettes not generally available in a bookstore or library. [Exp. #143.]

Uniform Capital Access Network
http://www.ucan.com/ucan/ Offers investors and entrepreneurs the opportunity to explore business prospects. [Exp. #138.]

USAMALL
http://www.usamall.com Fun page with hot and hip info, adventure sports, and entertainment schedule for concerts in the Bay Area. [Exp. #140.]

USS Liberty Home Page
http://www.halcyon.com/jim/ussliberty/ Information and files about the American ship that was attacked by the Israelis during the Six Day War. [Exp. #143.]

Vegan Action
http://www.umanitoba.ca/arrs/va/vegan_action.html A nonprofit group providing information on vegan, animal-free diets and lifestyles. [Exp. #139.]

Videomaker's Camcorder & Desktop Video
http://www.videomaker.com High-quality, up-to-date information on video production and distribution; to democratize and enrich television. [Exp. #141.]

Vinko Kojundzic's Home Page
http://maja.zems.fer.hr/~vkojun This is a home page with nice pictures of Zagreb, and a link to our official WWW server. [Exp. #140.]

Virtual Vegas
http://www.virtualvegas.com Virtual Vegas brings fun, entertainment, contests, prizes, and more. You can virtually gamble here—stay tuned! [Exp. #141.]

Virtual Vineyards
http://www.virtualvin.com Learn about the delights of great wine, discover your wine tastes, buy carefully selected wines. [Exp. #141.]

Visionware Home Page
http://www.visionware.com / PC/UNIX connectivity products: PC X-Servers, terminal emulators, ODBC solutions, and free software demos! [Exp. #140.]

Visual Engineering's Ovation Web Page
http://www.cdrom.com/pub/viseng/ This site features Ovation, a UNIX presentation package. Release 2.0 includes HTML export and PowerPoint import! [Exp. #143.]

Voyager Company
http://www.voyagerco.com Laurie Anderson, the *Paris Review*, the Guerrilla Girls, monthly opinion feature; demos, simulations from Voyager products. [Exp. #142.]

W3-design
http://www.w3-design.com Designers of World Wide Web sites. [Exp. #139.]

Walnut Creek CDROM
http://www.cdrom.com Publisher of over 50 CD-ROM titles and host of the busiest ftp site on the Internet. [Exp. #141.]

Walt Perko's Home Page
http://slip.net/~wperko See pics of CD-ROMs 10,000 Sounds & Songs and MegaMODMadNess vol. 1. [Exp. #140.]

The Wave Network
http://www.wavenet.com The Wave Network provides fast, reliable Internet access and Web design to Los Angeles. (213)933-9283. [Exp. #142.]

Web Books—Online bookseller and special services
http://www.primenet.com/~jculp/ Online bookseller with specialties in the areas of sexuality, censorship/conspiracy, and sports. Special free services as well. [Exp. #142.]

WebChat
http://www.IRSociety/WebChat.html Real-time, multimedia chatting on the WWW. [Exp. #139.]

Web Communications Corp. Home Page
http://www.webcom.com/ Self-service, value-added, inexpensive WWW publishing services. [Exp. #141.]

Webs Are Us
http://www.websrus.com The Internet experts for design, servicing, monitoring, and hosting your business presence on the WWW. [Exp. #142.]

Web World
http://204.188.129.2/netbiz/webworld.html or *http://voyager.via.net/netbiz/webworld.html* The World Wide Web home page directory. Access any listed page with one mouse click. [Exp. #140.]

Weddings Online
http://www.sensemedia.net/sprawl/weddings A one-stop information resource making it possible to plan your wedding right from home. [Exp. #140.]

Welcome to WOL on the Web
http://www.cris.com/WOL The home of *Windows OnLine* and the *WinOnLine Review* (online magazines) commercial and shareware reviews. [Exp. #140.]

Wellness Essentials
http://voyager.via.net/netbiz/weles.html The home page of wellness information and nutritional products and more. [Exp. #141.]

What's New in Travel
http://voyager.via.net/netbiz/travel.html The place to get "freebies," info, discounts, and hot travel deals. [Exp. #141.]

WH Networks
http://www.whnet.com/wolfgang Connecting Minds, data communications archive. [Exp. #140.]

World Conquest
http://dnai.com/~conquest Popular two- to twelve-player wargame (WWII) w/GUI (shareware), hourly turn processing. [Exp. #140.]

The World Square
http://www.w2.com "Virtual mall" with companies doing business in music, art, publishing, food, finance, automobiles, health, and medicine. [Exp. #142.]

Writer's Showcase
http://community.net/~neckknox Tells about the author and book on disk called *Fatal Image*. [Exp. #140.]

XROADS
http://xroads.wr.usgs.gov/Welcome.html Links to US Geological Survey Web sites. A way to learn about earth science and the USGS. [Exp. #143.]

you@here.now
http://www.webcom.com/~blessed Interactive philosophical site that allows you to share your contemporaneous thoughts with your fellow beings. [Exp. #140.]

ZIPZAP Universe
http://zipzap.com Home to the ZIPZAP Gallery, *Deep Style* Magazine, ZIPZAP e-zine, and the ZIPZAP Universe BBS. [Exp. #140.]

The Z Times
http://www.lh.com/z National Association of Broadcasters 95 show report, St. Stupid Day Parade in San Francisco, links to unusual sites. [Exp. #142.]

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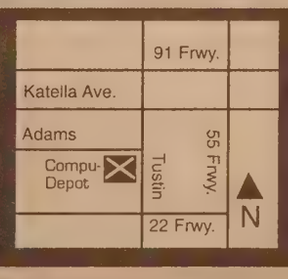

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PCI P5-75/90/100 256K.....459/559/659
PCI 486-66DX2 256K w/CPU.....275
VLB 486DX2-66 256K w/CPU.....249
PCI 486-DX4 75MHz w/CPU 256K.....280
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ATI WIN TURBO MACH 64 PCI DRAM/VRAM 2MB.....179/269
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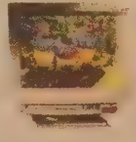

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Online Guide

BY KEVIN M. SAVETZ

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Radio On The Internet

As I write this, my computer blares a song by Sunfish, a Canadian band that I've never heard of before. I downloaded the tune from Virtual Radio (*http://www.microserve.net/vradio*), an online warehouse of, well, bands I've never heard of. The song, titled "Difference," is available in its entirety. It's about 2MB and took several minutes to download, but was definitely worth the wait. It's got a beat and you can dance to it.

Yes sir, there's music on the Net. Another Web site offers news and commentary from National Public Radio's *Morning Edition* show. Yet another houses an impressive collection of music from California garage bands. Sure, graphics on the Web are nifty, but as the Internet and multimedia become increasingly intertwined, our other senses yearn for titillation. So, why not audio on the Internet?

Sound on the Internet is in its infancy—standards are still being hashed out, and there are no "killer apps" for audio (yet). But as the Internet takes its slow course towards being the source for five hundred channels of multimedia superhighway mayhem, the ability to transmit sound is becoming essential. Today's experiments with audio on the Net—despite the emerging press releases and corporate propaganda, don't believe that these are anything more than experiments—are a great first step. They provide interesting content, and work on most any computer that can play audio. However, the technology still has hurdles to overcome—most notably, the sound quality of most of these services is low volume, scratchy, and low fidelity.

Still, it's fun to be on the cutting edge, listening to songs from bands I didn't know existed.

Internet Talk Radio

Internet Talk Radio was one of the first well-known experiments in "broadcasting" on the Internet. Actually, ITR doesn't do broadcasting—or even "multicasting" (which is covered below)—they publish audio files that you can download and then listen to on your computer. A typical hour-long radio show consumes a whopping 20MB of disk space. (*http://town.hall.org*)

Some Net users have criticized the concept as a grandiose waste of network bandwidth, given the fact that the same information in text format could fit into only a few kilobytes. "The reason you get audio information from a $3000 (or $30,000) computer," ITR producer Carl Malamud said, "is because ultimately this gives you a very new medium. We're not trying to replace radio, just as the trucks didn't replace the railroads and the telephone didn't replace the telegraph. There are things we can do that you can't do on a radio, like go interactive or add WAIS databases to support a program, or make an audio-on-demand server."

Internet Talk Radio began in 1993, and although it was innovative, production of new shows has slowed as Malamud turns his attention to other projects, such as the upcoming Internet World's Fair.

RealAudio

Fast forward to 1995, when a company called Progressive Networks created a program called the RealAudio Player, software which deals with the biggest shortcoming of Internet Talk Radio: those huge time-sucking, hard-disk-eating audio files. Instead of making you download a complete audio file prior to listening, RealAudio uses audio streaming—it plays the sound as it downloads. Its "audio on demand" technology reduces the wait to hear a program to just a few

If you thought self-publishing on the Web was popular, wait until everyone with a Net connection and microphone can have their own radio show, without so much as a nod from the FCC.

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Internet Radio *continued...*

seconds. Because RealAudio uses strong audio compression, you can listen to audio with only a 14.4Kbps modem. (*http://www.realaudio.com*)

The RealAudio Player is free, and works from within your Web browser—click on a RealAudio file, and the Player launches and begins to play. Progressive Networks is lining up traditional broadcasters, including National Public Radio and ABC, to provide material for RealAudio. Net notables including former MTV veejay Adam Curry, Radio Canada, and C-SPAN are publishing information with RealAudio, with certainly more to be announced in coming weeks.

The RealAudio player presents the listener with a set of stop, play, rewind, and fast-forward buttons. Unlike "real" radio, you can stop the music if you need to step away from your desk, and pick up where you left off when you return. Even better, radio shows can be indexed, allowing you to jump straight to the material that interests you. For instance, if you want to hear Radio Canada's news story on why huge chunks of ice are breaking off Antarctica, you can go directly there, skipping over the program's introduction, and never hearing the feature about how sex may control the cockroach population.

RealAudio's sound quality isn't wonderful—it's something akin to AM radio—but speech is certainly understandable. Unfortunately, whether you're connected to the Internet with a 14.4Kbps modem or a T-1 line, RealAudio sounds the same. It's too bad higher bandwidth doesn't bring better quality sound.

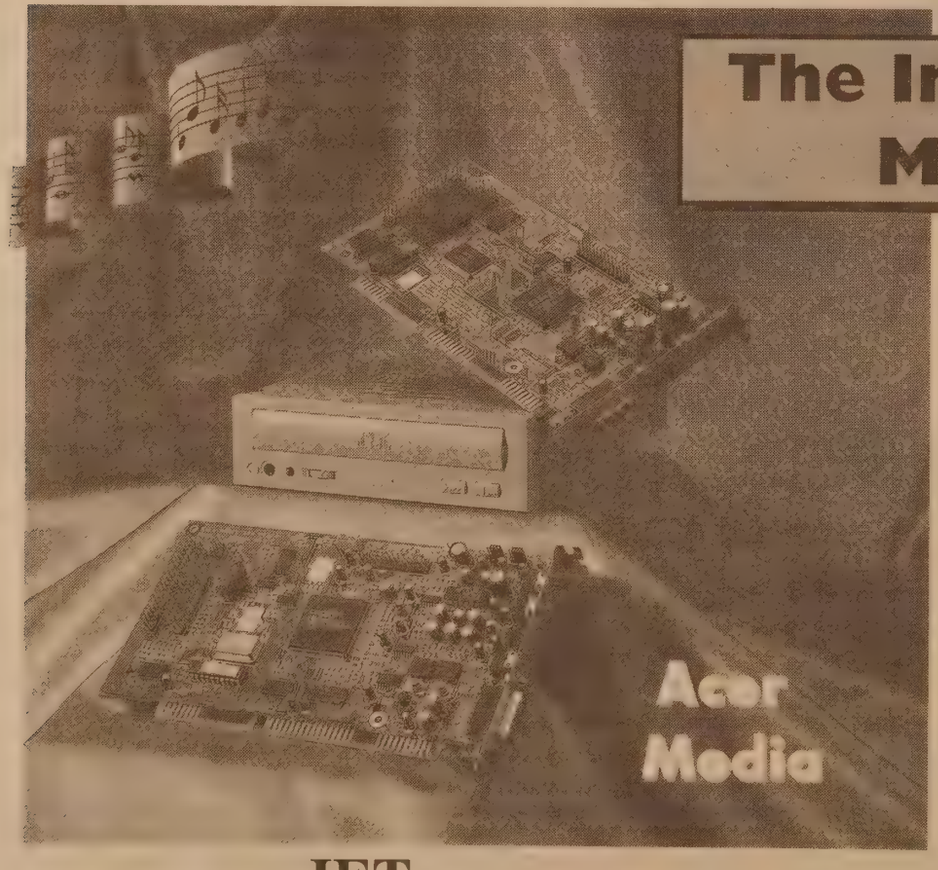
RICHARD DEAN, PRODUCER OF NEW MEDIA SERVICES AT NATIONAL PUBLIC RADIO, NOTES THAT AUDIO-ON-DEMAND HAS ITS BENEFITS AND DRAWBACKS. "AS A LISTENER IT'S A GREAT THING. AS A RADIO PROGRAMMER MAYBE ITS NOT SUCH A GREAT THING."

Richard Dean, producer of new media services at National Public Radio, is excited about the benefits of publishing audio on the Internet. He notes that audio-on-demand has its benefits and drawbacks. "As a listener it's a great thing. As a radio programmer maybe it's not such a great thing—it disturbs the continuity of the program," he says. "Instead of pushing info at someone—that's what radio broadcasters do—you allow them to come get it from you.

"The biggest problem with radio is that your work is really ephemeral, it hits the ether and it's gone. No one can hear it again, unless they go buy the tape or the transcript." Because a transcript can't capture the nuances of a news story, and audio tapes take several days or weeks to arrive, the Internet gives NPR listeners the ability to hear—or hear again—a story at any time, when it's convenient. "This is where radio broadcasting—information providing—is going," Dean says.

vat Radio

For some of us, just listening to the radio isn't good enough—we want to be the DJ, spinning discs for all the Internet to hear. In fact, folks are



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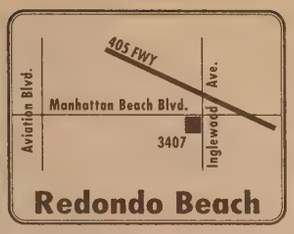

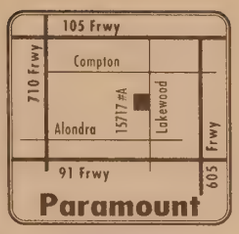

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intel inside

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Internet Radio *continued...*

already doing this with a resource called Radio Free vat. RFv allows anyone who's connected to the MBONE to check out a chunk of time on a virtual radio station, and play virtual DJ for a couple of hours to an audience of, well, dozens.

There is one catch—in order to participate as a DJ or just listen, you'll need to be connected to the MBONE, the Internet's "Multicast Backbone." Being on the MBONE requires a hefty pipe to the Net—at least 384Kbps, although a T-1 link is preferable—and a powerful workstation. So, the majority of Net users—those of us confined to a home computer and a 14.4Kbps modem—can't participate in RFv, for now.

Dave Hayes, a network and systems administrator for the Network Engineering group of JPL, created Radio Free vat. The idea was born quite by accident. "One day, I cross-connected the CD output [of my workstation] with the vat input and wound up broadcasting a couple minutes of a Chick Corea tune over the MBONE audio channel. I quickly noticed my error, cut off the CD, and made apologies on the audio channel." Someone answered back, "If you play music like that, you can play music anytime you want to."

"Then it hit me," Hayes said. "I used to DJ in college... Why not do this over the Internet? So, I started Radio Free vat. I began to play CDs that I liked. Soon, the idea caught on. I wrote a Perl server which handles session conflicts, and we went from there."

The number of MBONE users is rather small, so RFv doesn't have a huge audience—"The most people I've seen at one time is about 75," Hayes says.

As more users get access to high-bandwidth Internet connections, thanks to affordable services like ISDN, the audience for Radio Free vat will grow. If you thought self-publishing on the Web was popular, wait until everyone with a Net connection and microphone can have their own radio show, without so much as a nod from the FCC.

For More Information

There are plenty of other sources of radio on the Net—from traditional radio stations broadcasting their signals on the Internet, to IUMA, the Internet Underground Music Archive at *http://www.iuma.com*, where you can download tracks from dozens of bands worldwide.

Justin Paulsin maintains a list of radio stations that use the World Wide Web for broadcasting or informational purposes. This document is accessible at *http://american.recordings.com/wwwofmusic/radio.html*.

Yahoo's Index of Radio Stations on the Net is at *http://akebono.stanford.edu/yahoo/Entertainment/Radio/Stations/*.

The MIT List of Radio Stations on the Internet is at *http://web.mit.edu/afs/athena.mit.edu/user/w/m/wmbr/www/otherstations.html*.

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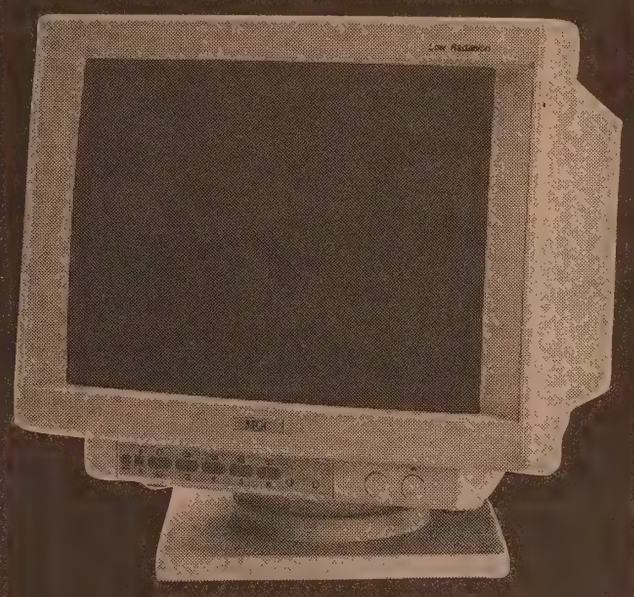

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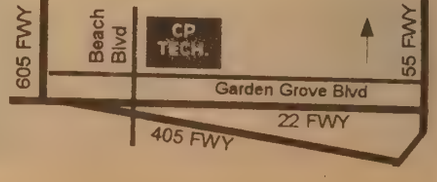

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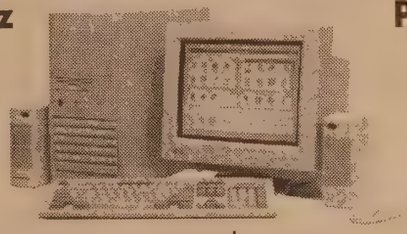

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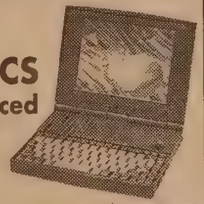

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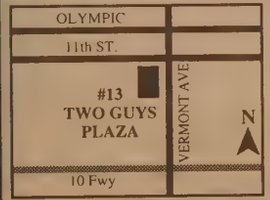

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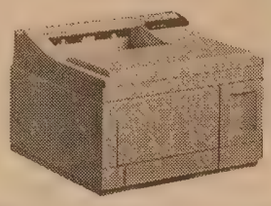

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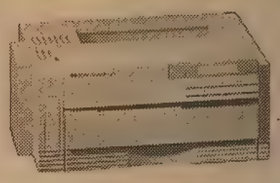

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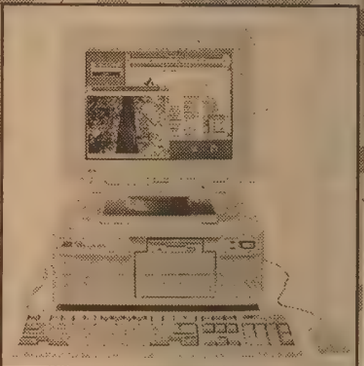

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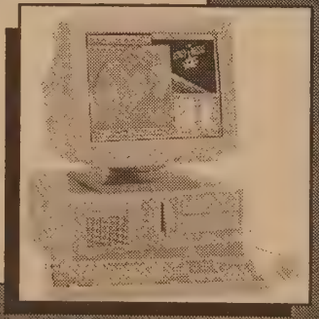

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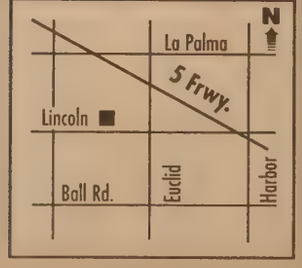

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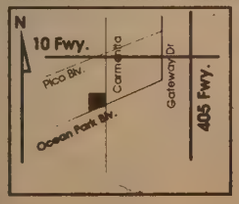

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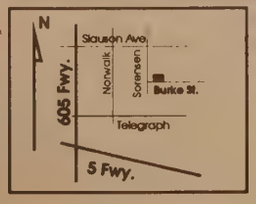

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we are living through the birth pangs of a new civilization whose institutions are not yet in place. A fundamental skill needed by policy makers, politicians, and politically active citizens today—if they really want to know what they are doing—is the ability to distinguish between proposals designed to keep the tottering Second Wave system on life-support from those that spread and smooth our transition to the Third Wave civilization.

—***Alvin and Heidi Toffler,*** Creating a New Civilization

In the year and a half since our first visit with futurists Alvin and Heidi Toffler ("Surfing the Third Wave," Issue #118), their work has become even more influential—not least because one Newt Gingrich, who became their friend in his teaching-assistant days, regards their views on technology-driven social change as vital to planning for America's role in the next century.

Last year, the Tofflers were approached by the Gingrich-related Progress & Freedom Foundation for permission to distribute an anthology of their previous work (selections from *Powershift*, *The Third Wave*, and *War and Anti-War*) with updated commentary. The idea, Alvin Toffler explains, was that the book would be a special educational edition, to be distributed to Capitol Hill types.

After the Foundation had distributed five thousand copies, the book went into commercial publication and bestsellerdom.

Laughs Toffler, "The irony of all that is that the book publisher is Turner Books, so we've got Ted Turner on one side and Newt Gingrich, who wrote the introduction, on the other! Which goes to show that all the standard political alliances and assumptions need to be reexamined—it's something we've been saying for twenty-five or thirty years." (*Creating a New Civilization*, Turner Publishing, ISBN 1-57036-223-8, $7.95)

Who's the Progress & Freedom Foundation, and why do they want us to read your book?

The Progress & Freedom Foundation was just established a year or two ago by a man named Jeff Eisenach. Eisenach is very close to Newt Gingrich.

Perspectives For A CHANGING WORLD

A Return Visit With Alvin Toffler

By Mary Eisenhart

The Progress & Freedom Foundation's position is not exactly the Gingrich position on some issues. They're very close as people. But the point of the foundation, as it appeared to me, is that it wants to have a much broader policy. It wants to work with Democrats as well as Republicans; and it has brought in George Gilder and Jay Keyworth—he's the chairman of the foundation; he was science advisor to Reagan. So it's very much a cutting-edge technologically oriented group, which has, I would say, a fair libertarian streak. We ourselves are not affiliated with PFF, although we like a lot of what they are doing. But not 1000%. Not 1000% anything.

Its pitch is that there's enough bitching and criticism, that what we need are positive images of the future, that progress is still possible within a context of freedom.

I'll give you an example of a position in which they differ with the Republicans, and I share their view. On training and retraining of the unemployed, basically the Republican position seems to be, "Kill the Job Corps and give the money to the states and let them worry about it." The Democrats have come up with a position which says, "No, take the money and voucherize it, give it to the individuals to be able to buy whatever kinds of training they want."

That is a much better, much more Third Wave solution. That's actually like the GI Bill of Rights that came after World World II, but you don't have to wait for a war. That's a good position; that's one example of a position the Progress & Freedom Foundation probably would hold in opposition to the Republican party as such.

I know Eisenach is working with Secretary of Housing Cisneros, he's working with Secretary of Labor Reich, and any number of contacts within the administration. The object is to build a kind of visionary think tank which is not just a captive of the Republican party, although it is still very closely and personally associated.

So that's the story. I think the Progress & Freedom Foundation has a good chance to produce some interesting ideas that we haven't seen around before.

I know they're interested in the whole issue of the civil society, the civil society being all those organizations that are neither government nor corporate—nonprofits, essentially. The churches, the unions, the self-help organizations and so forth—I think they regard that as a very important social system within the society, and have some very interesting notions about how they might be supported financially.

They're trying to do some imaginative thinking, and my hat is therefore off to them. That doesn't mean I have to agree with all the stuff that comes out of it.

So how does imaginative thinking filter into the government process?

With great difficulty. [*laughs*]

I'll tell you. The real answer? It filters in privately, and seldom gets public expression.

What you have on Capitol Hill are quite a number of very smart people, who know much more and are much better than their output suggests. What we've said for many years is that you could have 535 saints and geniuses in the Senate and the House, and Congress would still make stupid decisions, because it isn't the IQ or the intelligence of the members, or even their awareness that is decisive. They are, to a considerable degree, the captive of organized constituencies. They know that, we know that, and it means that they get dumbed down.

I'll give you two examples.

I spoke with one of the top Democratic leaders a few weeks ago, and congratulated him on some victory they had just won—despite their minority status they managed to win something in that day's tactical battle. He said to me, in private, "Don't congratulate me. It was the wrong issue. We had the wrong position. We shouldn't have been pushing this. I am a prisoner of my party and of the game. This is the way the game has to be played."

I think he would agree with Heidi's and my assessment that the system is on thin ice, that it's fragile, that this two-party arrangement could splinter easily next time. That could have some good things about it, but it could have some very toxic things about it as well.

A few days later I got a call from a Republican counterpart of his, a senator. The Republican says the same thing, privately. He says, "I have to spend two-thirds of my time on public relations. I'm on this committee, that subcommittee, that joint committee, etc., etc. Do you think I can possibly know all the things I need to know in order to make intelligent decisions about this? The answer is no! It's simply impossible.

"Therefore my staff makes the decisions. But who elected them?"

So the system isn't really working the way it was supposed to work. It's overloaded. It's blowing its fuses. In our terminology, it's suffering future shock. It can't handle the complexity and the speed of change.

And even when it tries to come to terms with it—for a technological example, when they get email, they tend not to know what to do with it. They want to hear from their constituents, but wait a minute...

"Do we *really* want to hear from them?" [*laughs*] Yes, and "How do we *read* all this stuff?"

This doesn't quite map out to the interest groups—there are all these individuals speaking.

Right. But those individuals will also eventually form groups.

I think what you have therefore is a system which reduces the intelligence of the output, and reduces the significance of the intelligence of the members. Sure you've got a lot of corrupt politicians and stupid politicians, but you've got a lot of quite smart ones also, who are overwhelmed, just plain overwhelmed.

And I should say that it's not just a question of the legislative branch being overwhelmed; the same thing is true for the White House, the same thing is true for the bureaucracy. Nor is it only an American problem. The same thing is happening in many countries.

As far as technology is concerned, I had a really sobering conversation with somebody in, shall we say, one of our investigative agencies, who was complaining about the fact that their computer technology is thirty years old, in the entire agency. They don't know how to handle email, they fax things and even hand-deliver them. They're constrained by stupid secrecy requirements and so forth.

My friend is tearing his hair out because, as he puts it, the bad guys have better technology than we have.

It's like Jim Bidzos of RSA said a couple years ago—Pablo Escobar (who was still alive at the time) isn't going to use a Clipper phone...

[*laughs*] Right! This is true!

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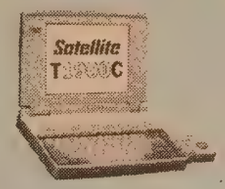

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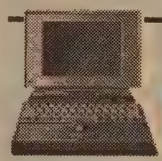

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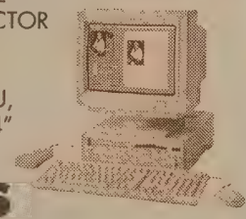

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A significant thing has happened since we last talked—and technology is part of the picture, but only a part of the picture. I think that the leadership of both parties now understands, although they don't necessarily say so, that the smokestack era is behind us. We're never going to repeople those obsolete assembly lines.

The difference is, as we said in this book, it's easier for the Republicans to cope with that than it is for the Democrats. For the Democrats, their key constituencies are being hurt, decimated. Not only that, the specific changes that they want to make—Gore, for example, with the Reinventing Government initiative. What he wants makes very good sense, but how do you do that if you need the votes of the civil service workers? You can't.

So we really ought to be thinking more subtly about politics, and think about a division of labor. What is it that the Republicans can do that the Democrats can't? And vice versa—like Nixon going to China, which was something the Democrats could never have done. What are the things that the Republicans can get away with and the Democrats cannot, and what are the things that the Democrats can do that the Republicans can't? And somehow, get a division of labor going between them.

I think that happens on certain things. Not consciously, not strategically, not deliberately; but in fact there is a kind of implicit division of labor about issues.

The danger that looms ahead, as far as Heidi and I are concerned, is a sudden multiplication of parties. At one time we would have thought that was a good thing, because we always argued for greater diversity and broader representation. But I have been compelled to rethink that position, or at least to shade it, under the influence of a friend of ours who used to be the chief political correspondent for the *London Times*.

He said, "You Americans have a two-party system. We Europeans live with multiple parties. You say that having more parties would be more democratic.

"But," he said, "in fact it's less. Because if you have multiple parties and you have to form a coalition, that process is always done behind the scenes and in what we would call a smoke-filled room. So the actual creation of a government is less democratic in a multiparty system than it is in a two-party system." That's his argument, and I think there's something to that. If we look at the deals that are made between lead parties and splinter parties in Europe and other parts of the world, we can see that.

Having multiple parties also in no way guarantees the expression of multiple interests or views. I just came back from Thailand, where you have five parties in the governing coalition, six parties in the opposition coalition, and as far as I could see, minuscule differences among them! [*laughs*] They're personal parties with charismatic leaders, and you vote for the person who's leading that particular group, rather than for a set of ideas.

So what sort of approach to government would you like to see?

Oh, I was afraid you'd ask that question. [*laughs*]

I don't have that answer. But what I do believe is this. We have got very smart people in this country, whose profession is organizational redesign. People who think deeply about "How do you restructure a gigantic corporation? How do you change culture in bureaucracies? How do you do all these things?"

We have very smart and creative people working on technological innovation. There's no shortage of creativity. And even, in the case of organizational design folks, of special competence. But almost none of that is addressed to government. It's all in the private sector and focused on change in the private sector.

There are organizations of organizational planners. I would like to see organizations like that; I would like to see technological centers; I'd like to see creative people from many different walks of life, but particularly people with some sophisticated organizational skills, come together and begin a series of conferences, meetings, on how you design a democracy for the twenty-first century. And get inputs into that process from a very broad range of people who would not ordinarily be part of that.

In England, the Royal Society of Architecture just had a contest among young architecture students for the design of a Parliamentary building for the twenty-first century. They had this kind, that kind, and the other kind—one side said, "Well, make it virtual, they're not going to have a building at all."

It seems to me that it would be a really worthwhile process just to get people thinking that change in government structure and in political structure is necessary and is legitimate. To, in fact, invite the public to do that. In Japan the Prime Minister's office will frequently have a contest for essays on the twenty-first century.

I would like to see a call from responsible high-level political leadership that says to college kids across the country, "This is going to be your country. What should a democracy of the twenty-first century be structured like? What organizational and structural changes would be useful?"

Then I come to Heidi's "theory of congruence," which I think is really important—you cannot restructure your private sector organizations as radically as we are doing, and fail to restructure the way the public sector is organized. Each one will choke or kill the other.

I would welcome a conference, at a minimum, to get a society of organization theorists and consultants, people who have been doing this all over the country and all over the world, get together, but focus for once on the public sector, not the private sector. Focus not just on the bureaucracy but on the political structure itself. Knowing what tools are now available to us, knowing what experience we've had in the private sector about the size and scale and structure of organizations—what have we learned from all of that that might provide a better model?

I don't have that model. I don't think anybody does. And if anybody had it too well packaged or too neat, I'd worry about it.

You talk a lot in **Creating a New Civilization** about the ongoing conflict between Second Wave people trying to keep things the way they were, the ones Marshall McLuhan might have characterized as driving with their eye on the rear-view mirror, and Third Wave people that can't wait for the future. Where do you see some of the hot spots in that conflict?

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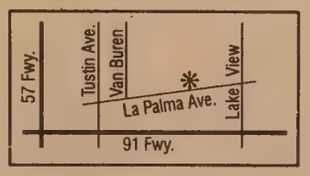

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tion can't be over ten or twenty years, it's ten weeks!

We have a tax system which seriously holds back the development of the Third Wave sector. Regulatory stuff, R&D requirements, all of these were implicitly designed, in effect, to prevent the Third Wave from happening.

Then you have a whole bunch of other things. Take the issue of work at home. Boy, did they make fun of us when we wrote *The Third Wave* and said that people were going to work at home. They said, "Ah, visionary nonsense."

Who's against it? Who's against it is the Internal Revenue Service and the trade unions. Those are the two. One of the reasons our hats should be off to Gingrich is that he is in favor of making it easier for people to work at home.

Again, I think the Democrats are not explicitly or specifically opposed to that, but they're in hock to the unions, who are opposed to it.

And who indeed need to see that the adversarial paradigm has had its day, or they're not serving their membership well.

Yes. They're not, and that's why they're dying.

I had a very interesting conversation with a columnist for the *San Diego Union Tribune* the other day, in which he asked me, "Do we need unions?" Well, people do need protection when they're up against a giant organization. But what kind?

What I found myself saying in response is that I suspect what we'll need is something more on an association model, where the associations of home-workers or the associations of people in different industries, whatever they may be, provide certain common services for them. Maybe they provide common health and welfare services, but also maybe they lobby for them, as unions and trade associations do.

Like the AMA does.

Exactly. So that may be more the model toward which we will move. But where you have large numbers of workers doing Second Wave work, rote and repetitive work in frequently ugly and terrible surroundings, they still do need unions. Unfortunately the unions will not be around very long unless they themselves rethink their structure. And the unions historically have always been reactive rather than proactive.

A good example of that—unions used to be local. That's why they were called "locals." It's only when big business began to go national that you got national unions. Big business goes global; unions begin talking about international relationships and so on. So the unions have seldom been imaginative about organizational structure. They've been reactive.

All you have to do is look at the executive board of the AFL-CIO today. There's a fight looming for the presidency, for the first time in many years. it's a perfect example of Second Wave lunacy. Lane Kirkland is president these days, I worked for them years and years ago in George Meany's day, and Heidi was a UAW shop steward. So we know a bit about the labor movement.

The AFL-CIO's a federation, but the real power is in the individual unions, rather than in the federation itself. Some of the unions are now saying, "We're going to fight an internal battle for new leadership." I just read in today's paper that Al Shanker, who's the head of the teachers' union, said, "Why should we have a fight? Nobody has any new ideas anyway." [*laughter*]

Gee, a rare burst of candor...

I might not be quoting him verbatim, but that was the gist.

The businesses that are most successful at this point are not the ones that the unions are historically set up to deal with.

No. We studied labor history, and I know a lot about it. The unions began with the craft unions—the carpenters, the joiners—

Who in turn came from the guilds—

Right. They came out of the guild movement. So you started with these craft/artisan unions, basically, and in the United States it wasn't till the 1930s that the CIO was formed, the Congress of Industrial Organizations. That's when you got mass organization for the mass-production industries—the steelworkers, the auto workers, and so on. There were *heroic* battles just to get organized, just to be allowed to get organized.

In those days, it was very necessary.

Absolutely. And then the AFL and the CIO merged, I believe in 1955. But now the industrial model is fading away.

I suppose that in a sense the craft unions have a better chance of survival than the mass unions in the CIO, which is really strange. But that could well be the case.

The other thing that's happened is that the union membership has gone down very, very radically in the country—and in almost every Western country—and now a very significant percentage of it, indeed I think a growing percentage of it, is in the civil service unions.

Now that's not a very good situation. If you need to have a flexible government, if you need to change government, that's really a bad development. Not that they don't need some form of individual protection against their employers, but...

It's pretty retro.

It is, definitely.

So next week you're speaking at a Washington conference that seems to epitomize Second Wave/Third Wave conflict: "The Global Information Explosion: A Threat to National Security?" What's all that about?

Well, in fact I'm less likely to address that myself. I think that what Heidi and I want to convey to these folks is that the global system has a different structure.

What do you mean by global system?

Let me go back again historically. Before the Industrial Revolution, the world consisted of a whole mishmash of political entities. You had city-states; you had empires; you had duchies; you had leagues of cities; you had the papal states; you had large territories that were ungoverned; you had blurry borders; and so forth.

That's the way the world was. With the coming of the Industrial Revolution and the rise of the modern nation-state, we now have a map in which every inch is neatly delimited, pink and blue and red blotches on the map, and the working assumption has been that you've got x number of nations in kind of a Newtonian conflict with each other. They bounce off against each other; they form a balance of power coalition; but the components of the system, the basic actors, are nations.

What is happening now as we go into a Third Wave world is that we're going back to a much more heterogeneous global order, or *dis*order, in which you have city-states like Singapore; we don't yet have leagues of cities but I'm sure we

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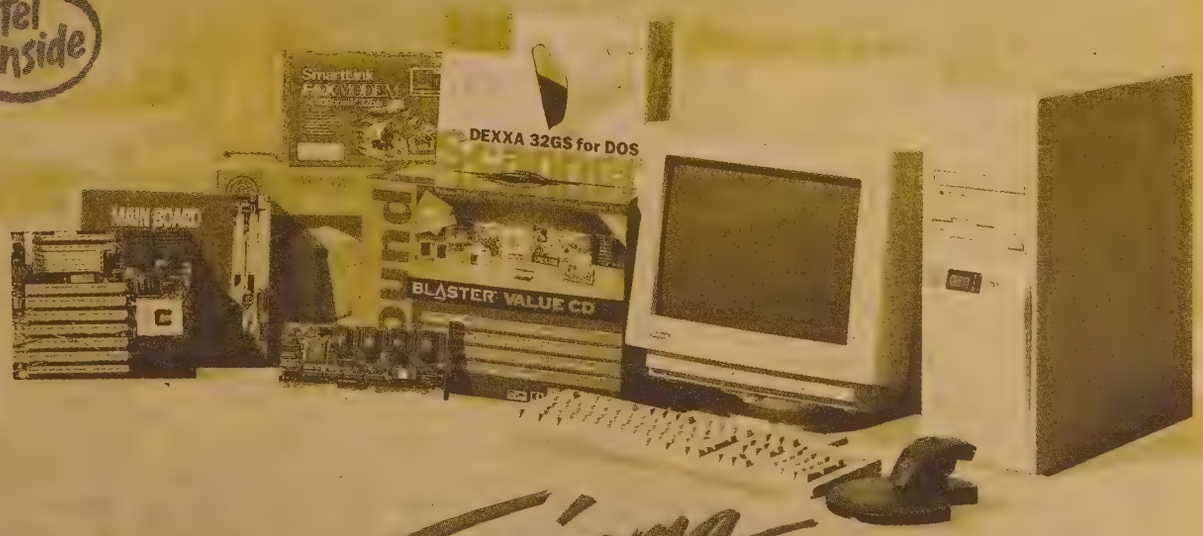

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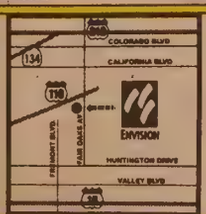

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will. Regions are becoming more important, subnational regions. Bi- and trinational regions are becoming important. New forms of business organizations which are no longer committed to any particular country, essentially stateless business organizations, are becoming important. Religion—Islam, the Catholic Church. *Narcotraficantes.* Global media empires, and the civil societies, the Greenpeaces of the world.

We use a computer analogy. It's as though you have a computer with a lot of different kinds of components in it, instead of a machine that had a handful of homogeneous components. It's a much more complex, dynamic system out there.

In that system what's happening is what we call trisection. We're going from a world in which the basic distribution of power was between industrial countries on top and agrarian countries, shall we say, on the bottom. That has been the dominant distribution of global power ever since the Industrial Revolution.

That's now changing, and what's happening is that we're moving to a trisected rather than a bisected system. Now you have agrarian countries, you have cheap-labor manufacturing Second Wave smokestack countries, and you now have Third Wave countries, or countries in that transition, and each of them has different requirements of the world system.

The other thing, to pursue the computer and communication analogy a bit, is that they require different levels of connectivity. If you're an agrarian country and all you're doing is selling sugar or some other cash crop, or even if you're mining raw materials, you have relatively small numbers of customers, and relatively limited inputs from outside.

I'll give you an example. I visited a company that mines iron ore in Brazil. They've been doing this for decades. They basically have thirty-five customers around the world, and have stable relationships with them. The world price may go up and down, but basically they have very limited contact with the outside world. They don't need a lot of contact in order for that operation to continue.

Contrast that with a Second Wave country, which needs markets all over the world, which needs raw materials, components from all over the place, just to make its product, so it needs a higher level of connectivity.

When you get to the Third Wave, you're talking total connectivity. We had some figures in *War and Anti-War* on that—in 1930 or thereabouts, the US had on the order of thirty or forty treaties and agreements with the outside world. By 1968 we had 280 some-odd treaties and agreements with the outside world. Can you guess what we have now?

We have over a thousand treaties and more than ten thousand agreements. So that's connectivity. That's being linked into the outside world.

There is a naive view that all this interdependency makes for peace. There's an assumption that interdependency is necessarily good—it's global, it's peace-loving, democracies don't fight, trading partners don't fight... Well, this just happens to be historically false. The two greatest trading partners in the world in 1914 were England and Germany.

Interdependency sometimes is positive and sometimes is negative. For us, it has really paradoxical consequences, because what you see is that the smaller and weaker the state or the group, the less constraint it has on its behavior. The bigger and more complex and more Third Wave it is, the more constraints we operate under.

General Aidid can run rings around us in Somalia—he doesn't have to ask anybody. We have to clear every move with the United Nations, with Paris, with London, with Tokyo, with Moscow, before we can do anything. Interdependence can sometimes prevent foolish and stupid and dangerous things, but it can also sometimes allow very dangerous small antagonists to literally run rings around you.

So basically what I want to do at the conference is draw this map, and to get our military, diplomatic, and foreign policy establishment to stop thinking, as they do, that it's still a game of nation-states, and that all our problems are a consequence of the end of the Cold War. I mean, if you ask them "Why are we having these conflicts?"—it's the end of the Cold War. It's the same people who, during the Cold War, attributed everything to the Cold War! [*laughs*]

The end of the Cold War is a symptom.

It's the end of industrialism. We're transitioning out of a giant three-hundred-year powerhouse of a civilization and we're creating a new one. If you look at things in that longer perspective, you then can see patterns that otherwise escape notice.

So we plan to spell this new global model out for them. Now there will be other people there who will be talking; some of them you know very well. Robert Steele will be there—he will be talking about a national knowledge strategy and a National Information Act of some kind—and I want to hear what some of the others have to say. We look forward to meeting some very smart and interesting people that are going to be there.

On this other related question of information strategy, information war—we have met some very, very intelligent people, either in the military or civilians teaching at the military academies and so forth, who have devoted some thought to this; not just thought about "How do you shoot somebody's radar down?", but ethical thought. What are the consequences of information warfare for politics, for morality? They've done some serious philosophical thinking about these issues.

So what's a scenario involving information war?

There is no agreed definition. By and large, the services in their more formal expressions take a relatively narrow view of what information war comprises. As I started to say, it's shooting out the other guy's radar and making sure yours operates! [*laughs*] It's electronic warfare and so on.

That, in our judgment, is a very, very narrow conception. We think we're likely to see very smart players on the global scene, and not necessarily nations, begin to apply information judo to the system. That could take the form of electronic terrorism, or it could be strategic propaganda, putting a spin on things a certain way.

One scenario that's been floating around is—imagine Saddam Hussein wants to start another war, but he wants support from the other Arabs, which he didn't have before. So, using the latest and most effective special effects technology and the best kind of Hollywood talent that you could possibly buy, he makes a program that looks indistinguishable from a CNN special bulletin. It shows Israeli paratroopers attacking Mecca. And he beams it up to a satellite then down to, say, North Africa. And the entire Arab world goes up in arms...

And by the time they go "Ooops," Tel Aviv has been bombed...

continued on page 212

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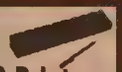

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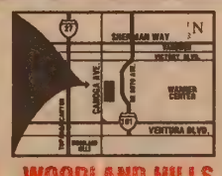

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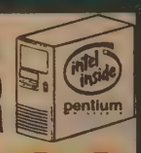

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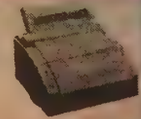

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68LC040 @ 66/33 MHz Processor • 8MB RAM Expandable to 36MB • 250MB Hard Drive 32,768 Colors • 7 SCSI Built-in • 14 Apple .28mm Non-Interlaced Display • AppleTalk® LocalTalk® • Double-Speed Internal CD-ROM • 16 Bit CD Stereo • Internal Stereo Speakers Headphone Jack • Global Village Fax Modem.

Free Software: Mac System 7.1P with Quicktime Player • Claris Works 2 • Quicken 4 • At Ease • MacLink Plus Translators Pro • Click Art Performa Collection • MAC PC Exchange • New Grolier Multimedia Encyclopedia on CD • Time Almanac CD • 3D Atlas CD • Family Doctor CD • American Heritage Dictionary • Kid Works • Thinkin Things • Writing Center Wacky Jacks CD Game Show • Spectre Challenger • Spin Doctor Challenge • Dole Five-A-Day Adventures CD • Cross Wizard

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PowerPC 601 RISC at 66 MHZ • 256K level 2 cache, integrated FPU 8MB RAM expandable to 72MB 500 Hard Drive • Double-Speed internal CD-ROM • Built-in LocalTalk and Ethernet connections • 2 serial ports (both Geo-Port compatible) • SCSI port • ADB port, 2 monitor port • 16-bit stereo I/O port • Built-in Apple® SuperDrive • 1.4MB Floppy disk drive reads, writes formats Macintosh®, Windows, MS DOS, OS/2 and ProDos disks

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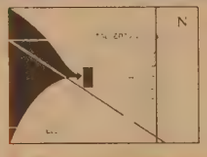

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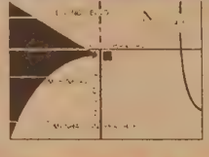

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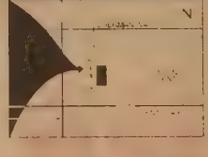

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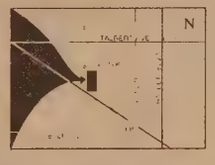

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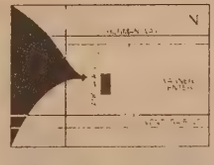

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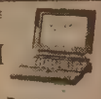

68LCO40 Processor 66/33 MHz Speed • 12MB RAM • Apple SuperDrive® Floppy Disk Drive • 500MB Hard Drive • Internal Modem • Three expansion slots- one for a processor-direct card, one for an internal modem, and one for RAM • Serial port • ADB™ port • Video-output port Power adapter port • Sound-input (mono) port and integrated microphone • Sound output (stereo) port and speakers • SCSI port.

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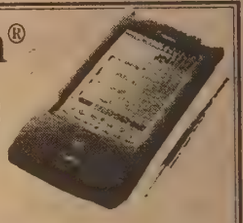

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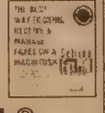

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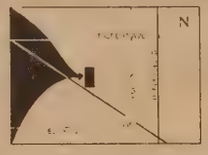

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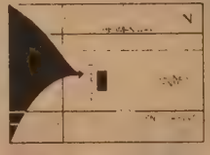

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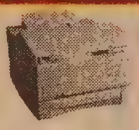

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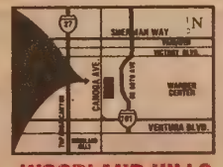

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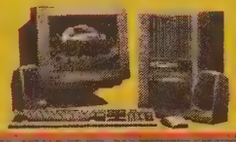

• Integrated Windows™ graphic accelerator with 1MB VRAM • 8MB RAM, expandable to 128MB • 256KB L2 cache • 1.44 Floppy Drive • 1GB hard drive • Quad-speed CD-ROM • 14.4 Fax/Modem with answering machine and speakerphone • 16-bit stereo sound • Speakers • Microphone • Keyboard • Mouse • DOS • Windows™ for Workgroups • Business software
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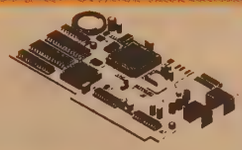

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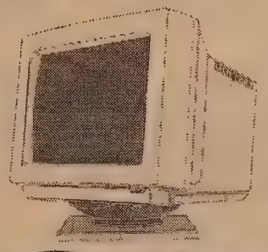

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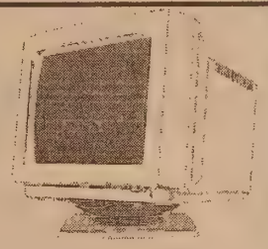

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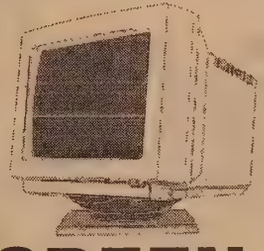

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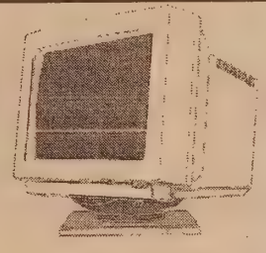

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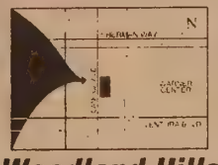

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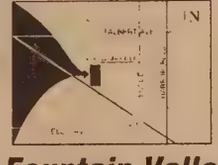

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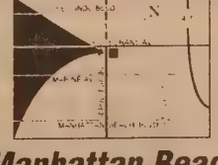

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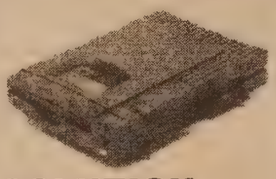

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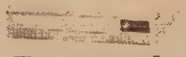

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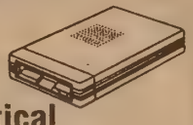

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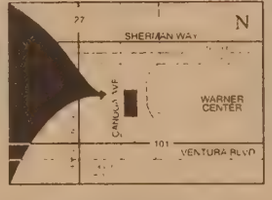

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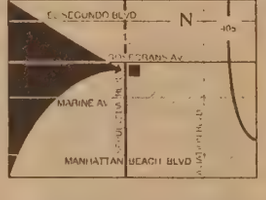

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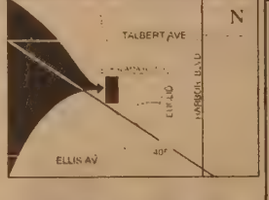

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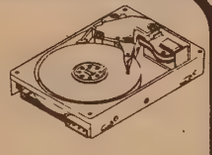

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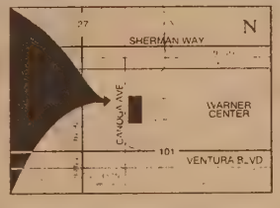

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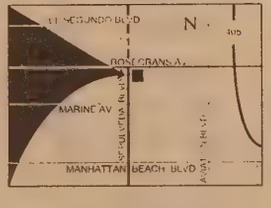

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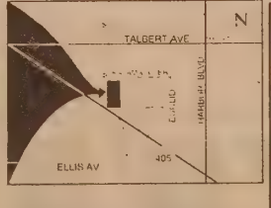

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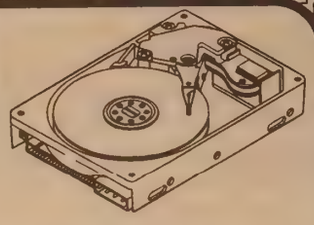

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- 128K Buffer
- 12ms Seek Time
- 2-Year Warranty

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- 12MSec Seek Time
- 256K Buffer

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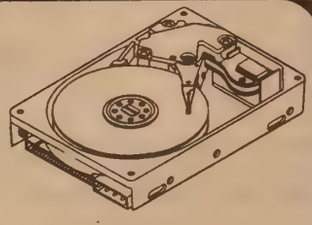

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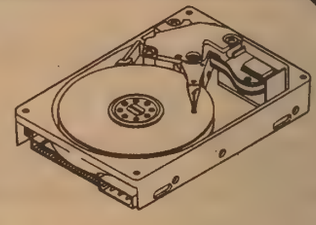

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32K Buffer
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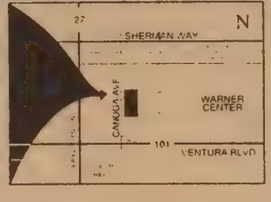

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- 3.5" x 1" height
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- 10 MS Seek Time
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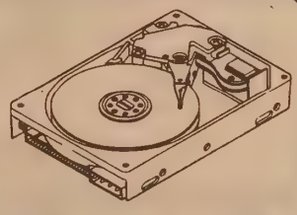

3.5" X 1" ht.
12msec Seek Time
256K Buffer
Fast ATA
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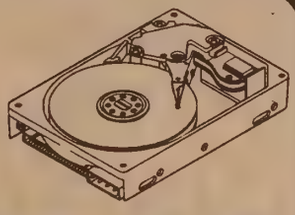

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12ms Seek Time
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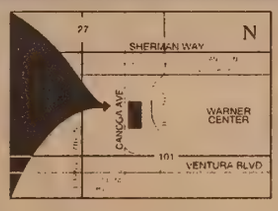

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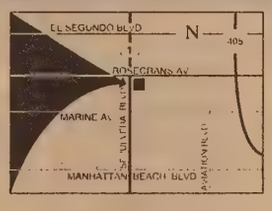

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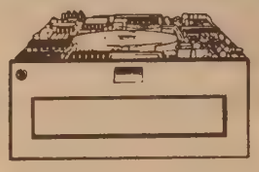

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Uses DC2120 Cartridge

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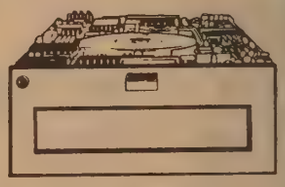

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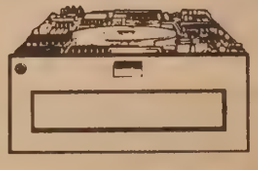

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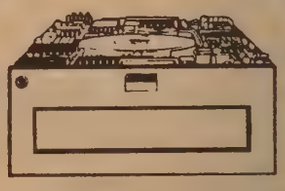

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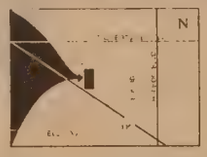

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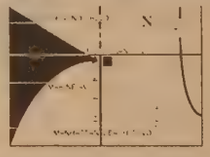

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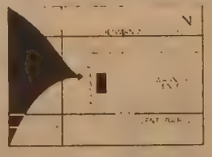

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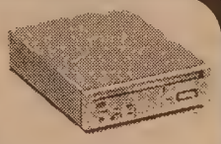

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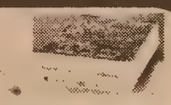

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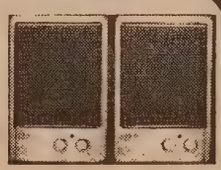

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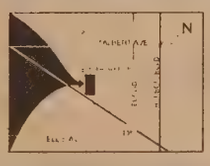

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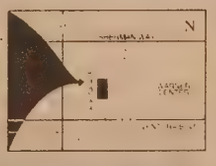

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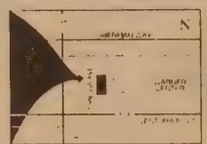

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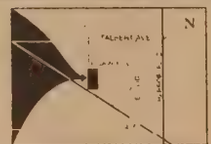

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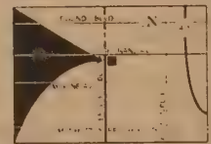

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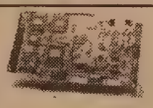

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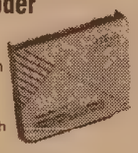

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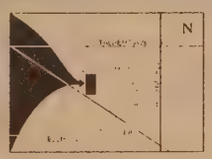

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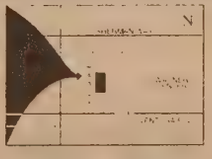

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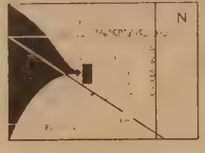

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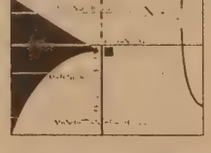

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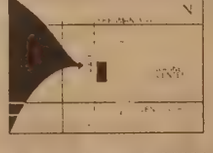

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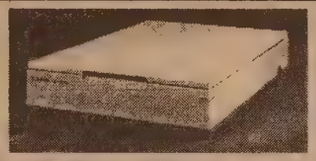

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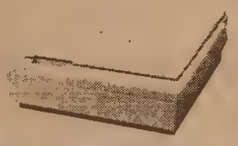

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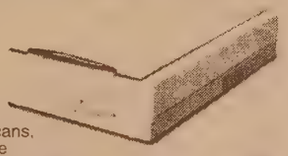

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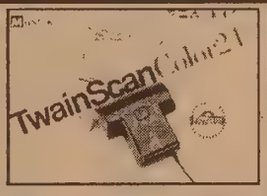

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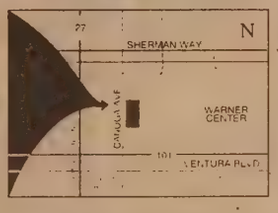

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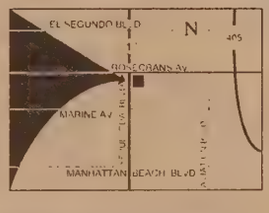

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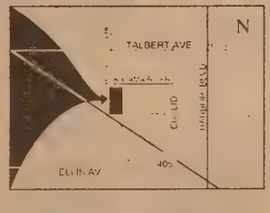

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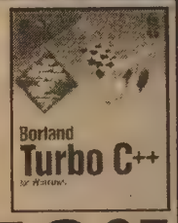

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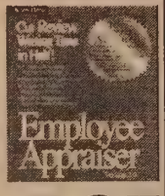

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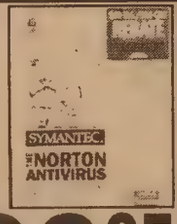

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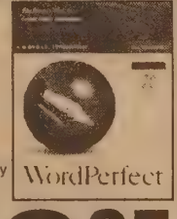

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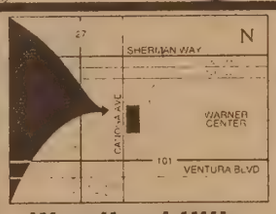

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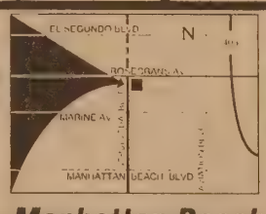

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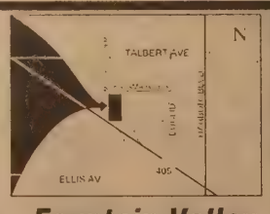

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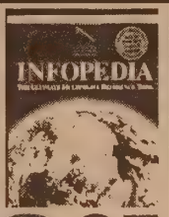

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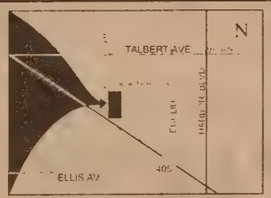

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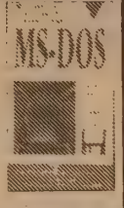

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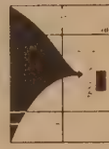

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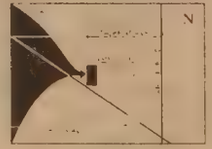

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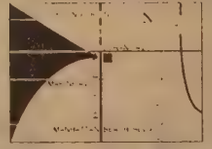

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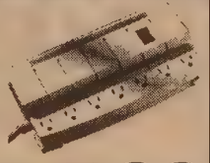

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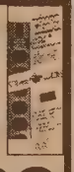

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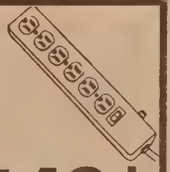

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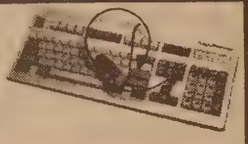

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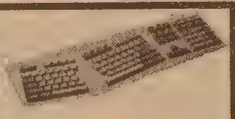

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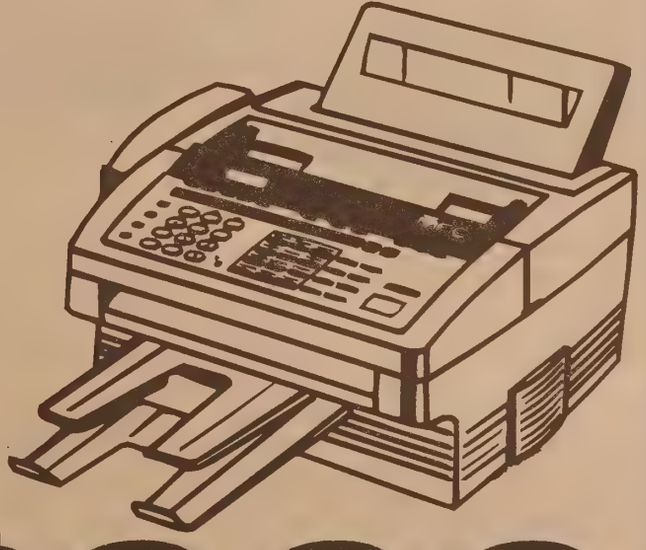

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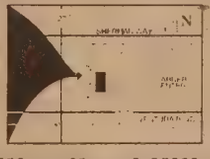

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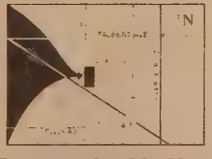

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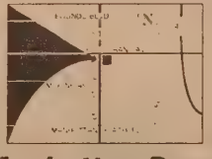

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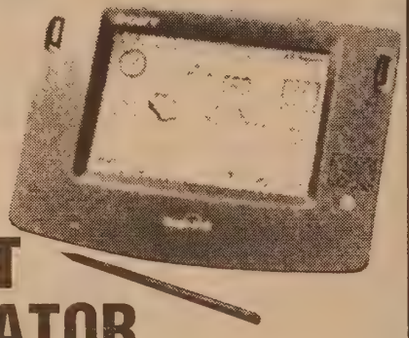

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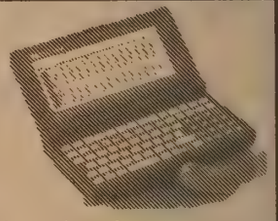

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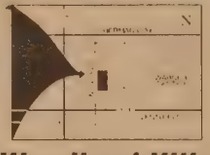

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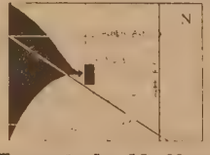

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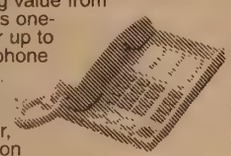

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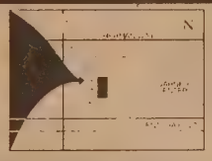

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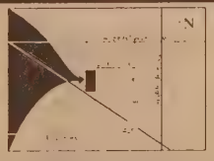

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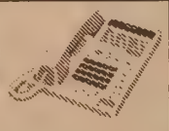

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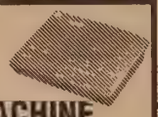

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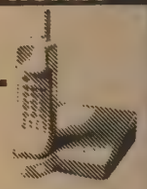

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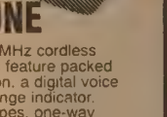

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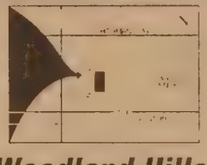

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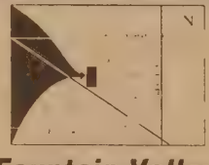

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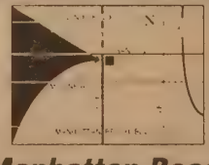

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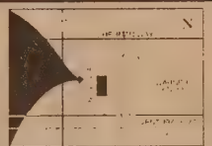

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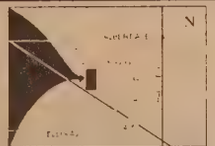

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Nothing To Hide?

How To Get Your Friends On Board For Private Communications

By Robert Moskowitz

I am the first to admit it. I wasn't brought up to live a "private" life in the modern sense. Sure, I'm relatively quiet about my private life, about my finances, my most audacious plans, and my innermost hopes and dreams. But I don't have bug-sweepers on my phone lines, bodyguards, metal detectors, offshore trusts holding my assets, or security lights and cameras guarding the periphery of my family compound. In fact, I don't even have a family compound.

So at this point, it's still taking a certain conscious effort for me to take the specific actions needed to maintain the privacy of my computerized information.

But I have begun to recognize that there are significant dangers, if I don't. For example, in the last few months, I found out that Kevin Mitnick had my credit card number in his stolen list of twenty thousand such numbers. I also received a telephone call explaining that my cellular phone had been cloned and within a twenty-four-hour period used to run up a pretty hefty bill on worldwide calls. I even had my newly replaced credit card number captured when the police rounded up a bad guy on an unrelated charge. And that's just the last few months.

In the face of this, I have begun to recognize the importance of keeping some of my ideas, my messages, and my account numbers away from prying eyes. But that brings me—and you, if you're moving in the same direction—to a practical problem. To ensure your own privacy, at least with regard to computerized files and electronic messaging, you must get the people with whom you're exchanging information to do the same.

This generally involves a two-step process: First, convince these other people of the need to keep their files—at least those they exchange with you—private; and second, take care of the technical matters of obtaining and learning to use the same software that you're using. Here's a brief guide to take you through these steps:

Step One: Why Worry About Privacy

It doesn't take much investigation to discover that most computerized communications are wide open to third parties who want to know more about you. Just as the FBI can and does go through trash to help monitor and catch suspected criminals, as yet unspecified government agencies certainly can go through the Internet's electronic mail to see who's talking about what, and to whom.

In fact, electronic mail is a whole lot less secure than paper-based mail, if only because computers can scan millions of electronic missives far easier and more completely than people can read what you mail within sealed envelopes.

For example, any disgruntled employee of your Internet access provider is a candidate to get their hands on your password and distribute it—along with hundreds or thousands more—to others, for pay or just for fun.

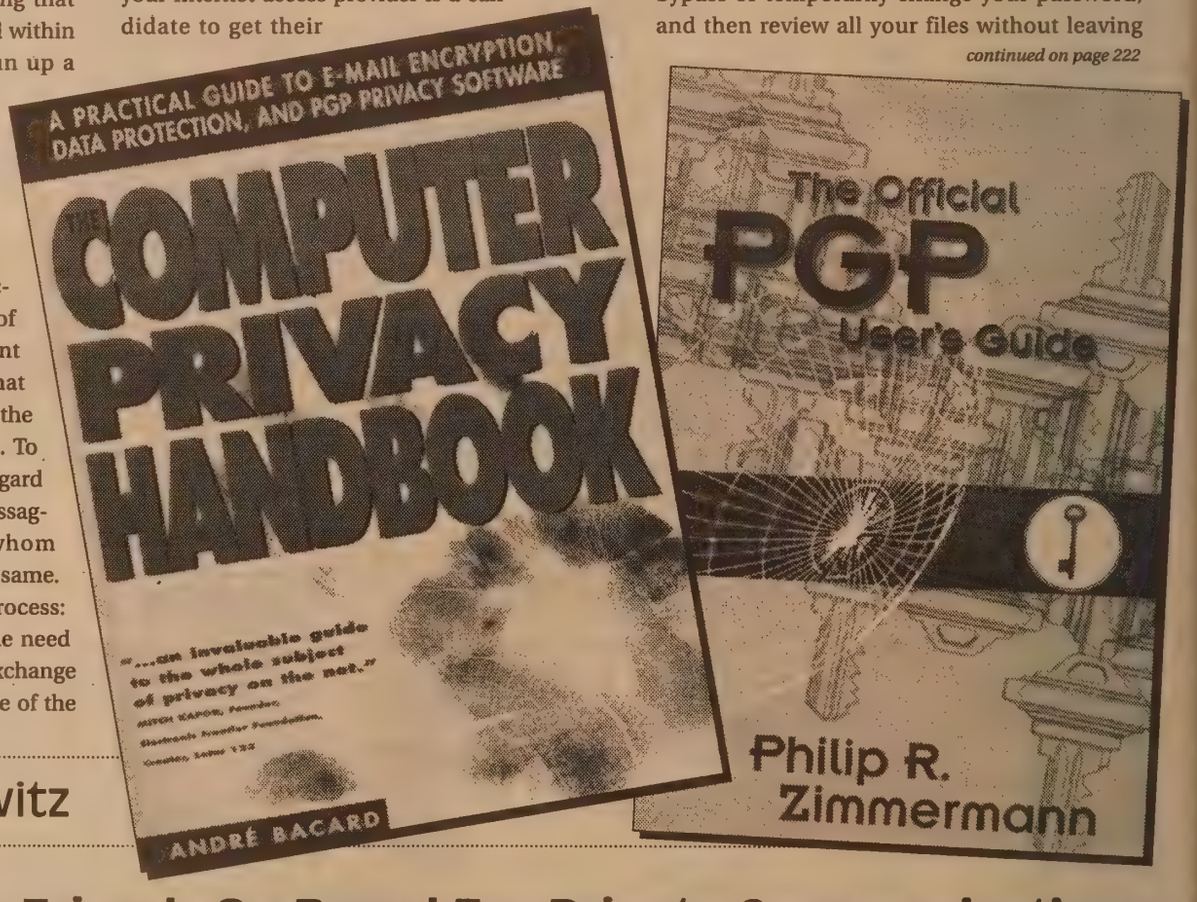
That's why most people who are knowledgeable about computer security are reluctant to leave any type of "clear" or unencrypted information on their computer if they are not right there.

Your privacy is even less secure if you're working with network or workgroup software provided by your employer.

A recent survey by *MacWORLD* magazine found that more than 20% of businesses in the US acknowledge that they have monitored and/or scanned through their employees' computerized files, email, or in-house voice mail messages. The extent of unacknowledged access into these sorts of files is impossible to calculate.

In these situations, passwords won't help you. It's almost certain that your network administrator or technical support group has the power to bypass or temporarily change your password, and then review all your files without leaving

continued on page 222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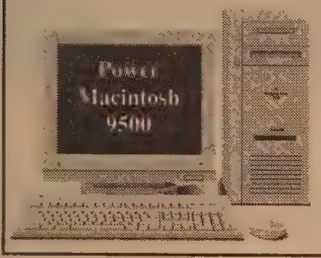

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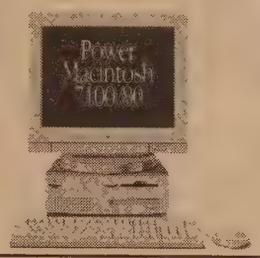

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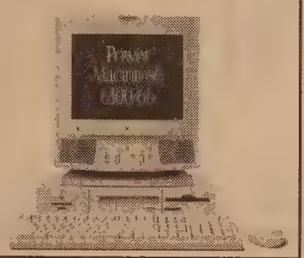

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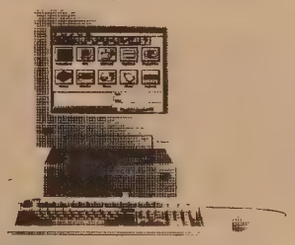

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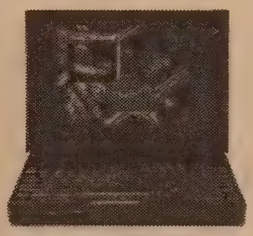

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MULTIMEDIA 101

Multimedia Models: Beyond Pop Music

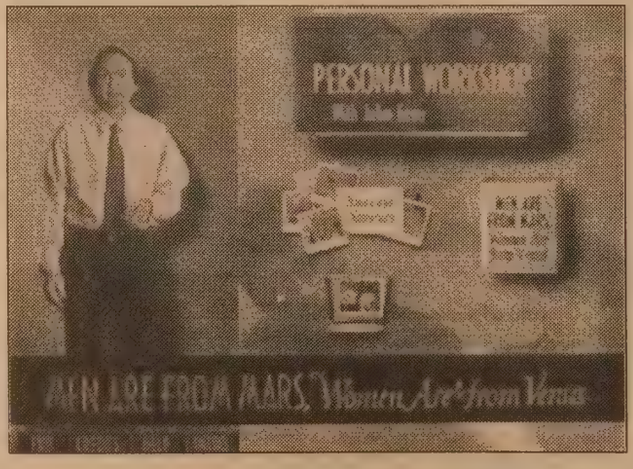
Relationship Counseling From Your Computer

The past two months' Multimedia 101 columns have concentrated on music-related multimedia titles. That was because one potential model and basis for multimedia culture is obviously popular music and its related business infrastructure.

My gut feel is that this will eventually become a wide channel for multimedia diffusion—provided enough grassroots independent creative thinkers manage to overcome the "interactive liner notes" dreck that major-label lamebrains are attempting to foist on the gullible. However, it is worth noting that Sony Music Entertainment's floppy-based video game/screensavers may have some appeal, although I'm not sure that Michael Jackson is really who I want popping up on my computer screen.

There are, however, some other equally obvious models: book publishing (which offers a wide diversity of models itself), documentary video, and various games and puzzles fronting as educational devices, to name slightly more than three.

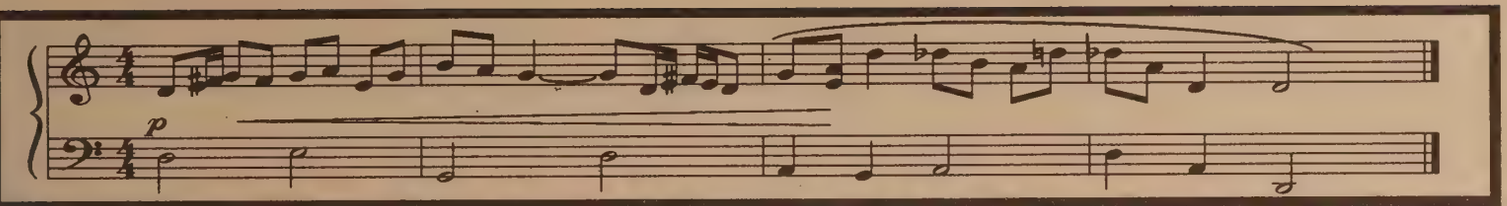
Of course, the model that attracts most media attention is the good old Hollywood blockbuster, something I find profoundly uninteresting, although it can produce a knee-jerk-reflexive and vulgar response to the huge sums of money involved and also provides for a certain grim sociocultural observation on what passes for entertainment these days. How do you spell "S-P-E-C-T-A-C-L-E"? How do you spell "B-R-E-A-D A-N-D C-I-R-C-U-S-E-S"?



And, unfortunately, the type of film and film characters that generally attract the multimedia attentions of the moguls and wannabes who make the decisions are not the most refined. I'll admit that there may, curiously enough, actually be a technical reason for this in addition to the marketing imperatives. If you are indeed allowing the user to direct the actions of a character and the outcome of a series of dramatic events, you will be asking less of the users' willing suspension of disbelief if you do not define and refine characters and events to the purity and strength demanded by traditional narrative form. The debate about storytelling and interactivity is a lengthy one, but it seems possible that old-fashioned high-falutin' artistic concepts of character development may inevitably become casualties in any user-determined dramatic sequence of events.

But one of the wonderful things about multimedia is that it is such a plastic and malleable medium that all these models and more remain theoretically viable. The questions of whether one or another channel or title will repay investment does, of course, depend on the amount of investment involved and the size of the potential market—as well as, we critics fondly hope, upon the excellence, or not, of the particular title's execution.

BY JONATHAN E.



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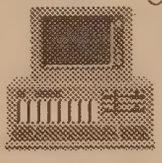

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MEN ARE FROM MARS, WOMEN ARE FROM VENUS

It's not much of a surprise that best-selling books, particularly ones by an author who takes his act on the seminar circuit and already offers the multiple media of tapes and videos, will naturally attract the multimedia attentions of publishers. And when the subject is the evergreen and fertile field of relationships, a field that is in its essence about visual and audio cues, there would seem to be some potential for an interactive multimedia treatment, if not a perfect match. And when that publisher is HarperCollins, the print outpost of mega-mogul Rupert Murdoch's far-flung media empire, you might simply ask why it took so long.

The CD-ROM/book multiple-media package of John Gray's *Men Are From Mars, Women Are From Venus* is indeed a livelier affair than the book alone. The two media couple nicely, with the CD-ROM offering faster access to a more vivid and dramatic presentation of Gray's spiel while the book is—well, at least it's readable on the bus and also somewhat deeper and more complete than the multimedia presentation.

I'm not going to comment much on what Gray has to say beyond noting that fashions change from decade to decade in the ways that the differences and relationships between the sexes are viewed, and that his view that men and women might as well be from different planets is as attractive and accurate a metaphor as many others. A more fatalistic and long-term European view might be that we humans are merely the innocent civilian victims of the ongoing war between God and the Devil where both sides use sexual relations as the weaponry to befuddle and divert us towards one camp or the other.

However, Gray claims that "more than 100,000 individuals and couples[...]have already benefited from my relationship seminars" (I am curious as to how many people that really means: 100,000, 150,000, or 200,000?), and so there is clearly some widespread appeal and what he says must work well for some. In fact, I will admit that much of what Gray says resonates with my own personal experience, sometimes in quite embarrassing ways. Further, he advocates specific techniques—and demonstrates them on the CD-ROM—that display more than ordinary insight into human nature and affairs, perhaps even a degree of wisdom.

By far the major portion of the CD-ROM is "The Interactive Workshop." In addition, the CD-ROM includes four short clips from uncredited movies from "Hollywood's past," the complete text of the book, and a few testimonials from satisfied clients of Gray's seminars. But while these are not exactly filler—both the movies and the book are tied into the workshops—the real interest of the CD-ROM as content and interactive multimedia lies in the workshop section. It makes for an interesting case study. Most of it is well executed, demonstrating a reasonable use of multimedia techniques even if not wildly exciting, although there are also some curious rough spots.

THIS LITTLE PIGGY WENT TO MARKET

The illustrations and copy on the box promise a "customizable personal workshop." This is, of course, marketing talk, meaning that it transforms fairly mundane interactivity into something that appears to be more without actually telling a lie.

What you get is a questionnaire of ten questions for men and eleven for women; you can answer as a man or a woman or use both sets of questions and answer as a couple; your answers must be from the multiple choice menu of Often, Sometimes, or Rarely—in other words, there's not much opportunity to get really personal here.

Once you've answered the questions (and, while you can bypass the whole questionnaire, once you're in, you have to answer every question), John Gray pops up with one of three canned responses, the same for either sex and basically not very informative—but nicely positive, and a varied selection from the six workshop sessions is highlighted for your attention.

Depending on which questions you answered with an "Often" and which with a "Rarely," it's pretty obvious why particular workshops are suggested. In fact, there's a visual cue in the questionnaire, as each pair of questions that deals with a particular issue has a shared illustration. It's actually a pretty neat little trick but didn't quite come up to the heightened expectations produced by the box copy. I expected Gray's responses to be more varied and based on the sex of the respondent and the specific answers to the specific questions. The way it is just doesn't seem very personal.

This does, however, serve quite well in a minimal way to introduce the workshops to the user and to provide an initial focus. It also raises the tantalizing prospect of much more complex questionnaires, a wider scale of answers, and some sort of more authentic response. As is so often the case with multimedia products, today's implementation points down the road to tomorrow's goal as much as being a destination in its own right.

GET BUSY!

Each workshop deals with one aspect of the differences between men and women and suggests ways to deal with those differences. Generally, within the topic, the format features a video clip of John Gray introducing the topic. There is then a choice of two situations to look at it in, or the "Another Look" section; and in four topics you can choose to view a movie clip for "Relationships in Pop Culture."

Across the bottom of the screen is a relevant quote from the book with a hot link to that section along with a button that opens your own personal notebook for your commentary. The quote and links change from screen to screen so you can enter the text of the book at many different points.

There's a fictional couple, Michael and

Sony Music Entertainment's floppy-based video game/screensavers may have some appeal, although I'm not sure that **Michael Jackson** is really who I want **popping up** on my computer screen.

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MULTIMEDIA 101 *continued...*

Megan, who dramatically portray these tense domestic scenes along with possible improvements. The topics are handled a little differently from workshop to workshop depending on what seems appropriate. However, the most common scheme is that Gray will again introduce the situation on video; you can then click on a video clip showing the situation degenerating into emotional ugliness or on another clip showing how the situation can be resolved in a more elegant and loving way. After each clip, Gray springs to life on the left side of the screen and analyzes what just went down.

There are also buttons for audio clips of Michael's and Megan's feelings about the situation and each other. In some workshops, the scheme is varied. For example, in the "Scoring Points With the Opposite Sex" workshop, besides the standard situation of emotional confrontation, there is also a slide show of stills with voice-over offering "Tips on Scoring Points."

In the "How to Communicate Difficult Feelings" workshop, instead of tense situations, you can hear examples of what Gray calls a "love or feeling letter" from Megan and Michael along with Gray explaining the eight steps to writing one yourself. A good feature in this section was that, after Gray suggests you take a couple of minutes to think about what you want to say, a clock appears on the screen counting down the seconds. However, in the truest spirit of computers being our servants and interactivity, you could override the clock and move on.

In the "Another Look" section, there's a choice of two or three video clips from one of Gray's seminars, along with two or three links to an appropriate section of his book. The "Relationships in Pop Culture" section is iconized with a cartoony '50s-style television set. Each clip is followed by John Gray's commentary, which is just as well because, without the commentary (which you don't get in the Pop Culture section itself), I mostly just didn't get it! And even with the commentary, it sometimes seemed like a bit of a stretch to relate the clip to the topic. Each clip in the Pop Culture section also has a link to take you to the relevant workshop topic.

This scheme is generally a well-organized and simple branching and linking system with no big surprises and adequate navigational abilities provided by a return arrow and pop-up menu in the lower left of the screen. You'll always know where you are, how you got there, and how to get out. Once or twice I wondered why there was a link from a specific workshop to a particular part of the book.

In the book section itself, there's a table of contents with each chapter broken into several sections so you have reasonably efficient access. There is, however, no search function or even index, which I have mixed feelings about considering this is a digital medium—but then the matter doesn't absolutely need it and think how silly it would be to search on, say for example, "opposite sex."

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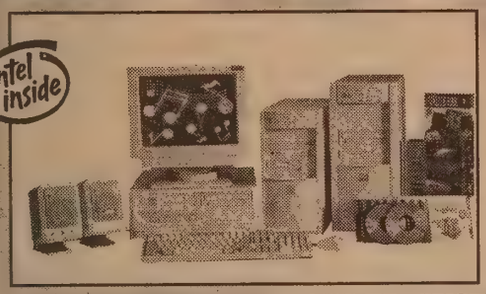

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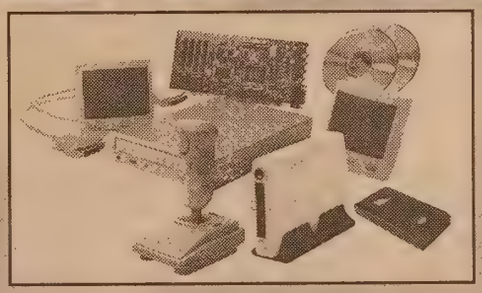

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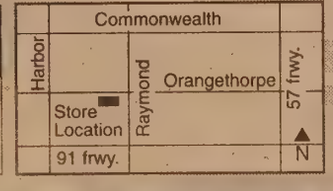

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MULTIMEDIA 101 *continued...*

GET NASTY!

I was a little disconcerted by differences in Gray's appearance—and the way he acted—between the video shots of a live seminar in the "Another Look" section and the video shot specifically for the CD-ROM. While he was obviously still the same person, he appeared to have gained weight and changed his hair color between the presumably earlier seminar footage and the CD-ROM footage. A small point maybe—but when we are, in effect, being asked to trust this guy with the intimate details of our relationships, consistency might count in getting us to drop our barriers.

In addition, his personality seemed to change between the two sets of footage. In the seminar Gray is rather high-energy and amusing, with a lot of body movement, while on the specifically CD-ROM sections, he's almost smarmy and unctuous in his manner. Luckily, the strength of his material enables him to overcome this difficulty, but it's a close call. Other producers should be aware that the consistency of your lead character will be a critical factor in the success or failure of your title.

The characters of Michael and Megan, the Martian and Venusian emotional protagonists (or should that be antagonists?), provide food for thought. Certainly, they're portraying two characters who are having problems with each other—but, frankly, their nastiness towards each other is distinctly unsympathetic. Several times I just about got to the point where I simply didn't care if they resolved their problems; I was happy that they were making each other unhappy and were out of circulation. If I was in a relationship that had gotten that bad, I'd be out in a minute! Then I remembered that the real point of this CD-ROM is to help me learn how to communicate better. Once again, what rescues the product is the strength of Gray's material rather than the way it is portrayed.

RESOURCES:

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One thing you won't be visiting John Gray's virtual workshops for is the graphics. Now, you don't go to a therapist to look at the interior design either—but the better ones have made some attempt to provide a tasteful and relaxing environment in which to spill your guts. The graphics of *Men Are From Mars, Women Are From Venus* are reminiscent of a real low-rent waiting room with a very off-the-shelf budget feel of ghastly pastels and tacky textures. I'm surprised they didn't add that little bit of extra realism by giving you a code to open the door!

On the positive side, some things were handled well. The active button would come up in

continued on page 237

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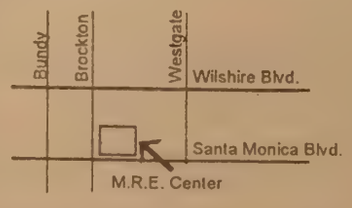

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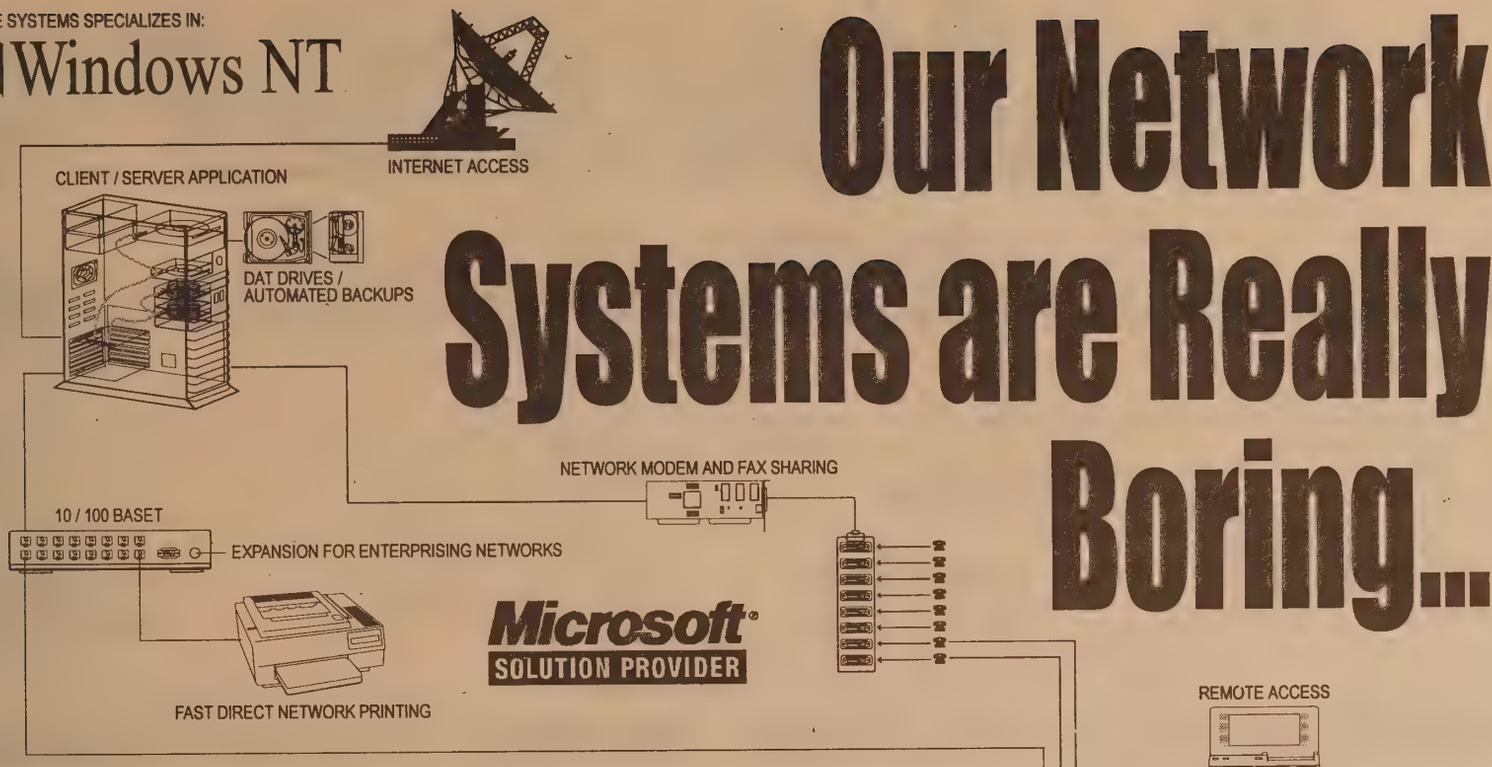

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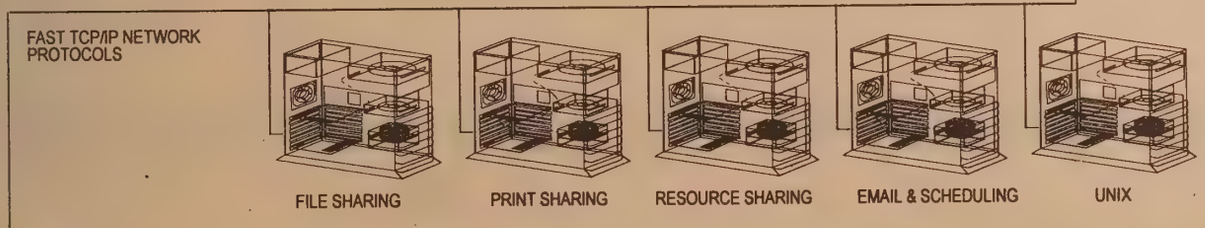

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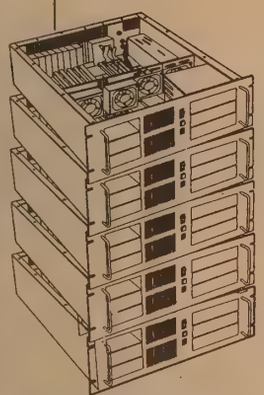

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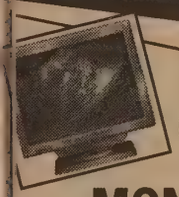

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Alpha Paint

36-Bit Butter For Your Toast

If you really need professional results, I've always found the best approach was to paint in RGB, then hope and pray it looked okay on a composite monitor. After using AlphaPaint from InnoVision Technology, I can now see that the problem was in my tools, not in the display capability. Alpha Paint lets you paint right on the Toaster's Program monitor, so it's WYSIWYG in the purest sense.

ALPHA CHANNEL

With 24-bit real-time painting capabilities, an 8-bit graphics alpha channel, and a 4-bit dithered video alpha channel, Alpha Paint is billed as a "36-bit" paint program. Actually, Alpha Paint implements several different alpha channel tools. There are brush graphics and video alpha channels, a weight (density) control, and a stencil alpha channel.

Generally, graphics alpha channels are used to composite graphics together, like stamping a brush down with some level of transparency over a full-screen image. Video alpha channels allow video to show through graphics. So parts of an image may appear solid when viewed as a graphic; however, when keyed over video, defined areas will appear transparent, letting you see the underlying video.

The brush alpha channels affect the pen or brush you're painting with and allow you to independently control their graphics and video transparency. Weight control is a global density setting and directs the overall amount of "paint" that is applied. The stencil alpha channel is a protection mechanism that masks out defined areas of the screen.

The Magic Wand tool lets you quickly define a stencil alpha channel. Using a definable tolerance range, this tool will unprotect (unmask) areas of the screen. This works best when the desired object is against a fairly solid-color background. Depending on the situation, this feature may eliminate the need to trace an object by hand.

HYPER-PALETTE

Alpha Paint's palette has two hundred "Color Boxes" displayed in selectable banks of twenty. In addition to merely defining a solid color, a Color Box can also define a "spread pattern" (see below). This allows you to quickly fill objects with gradients and other patterns, as well as define alpha channels.

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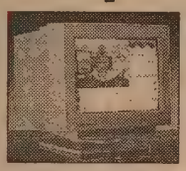

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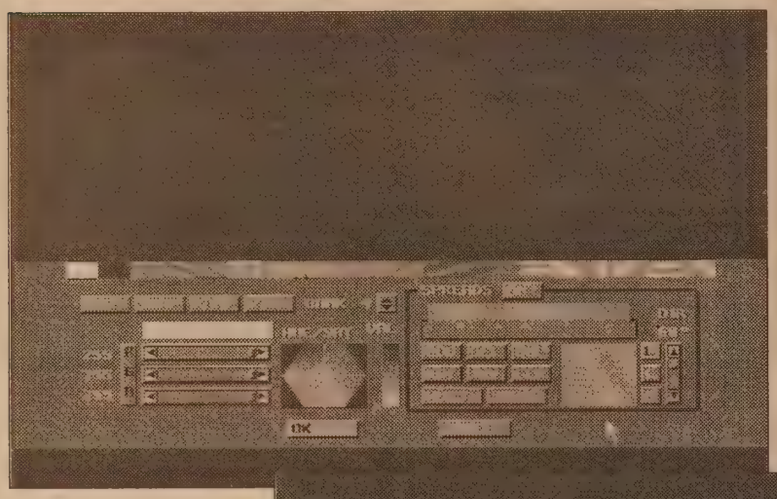

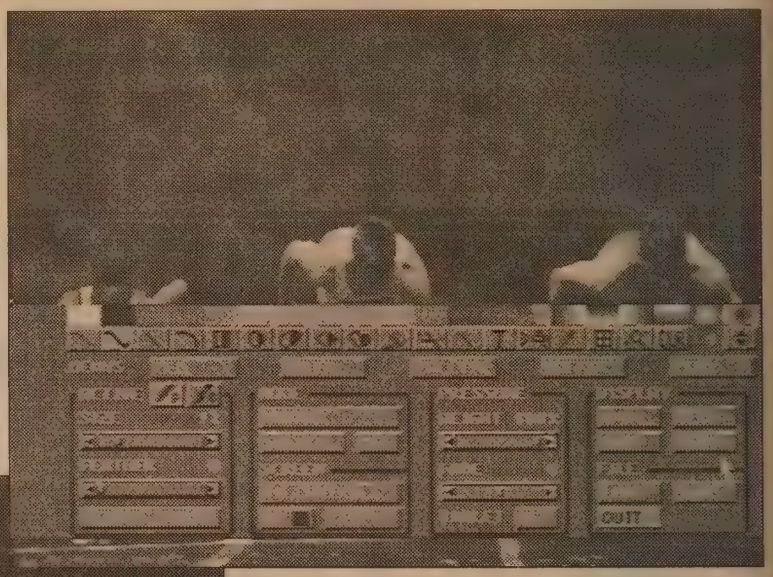

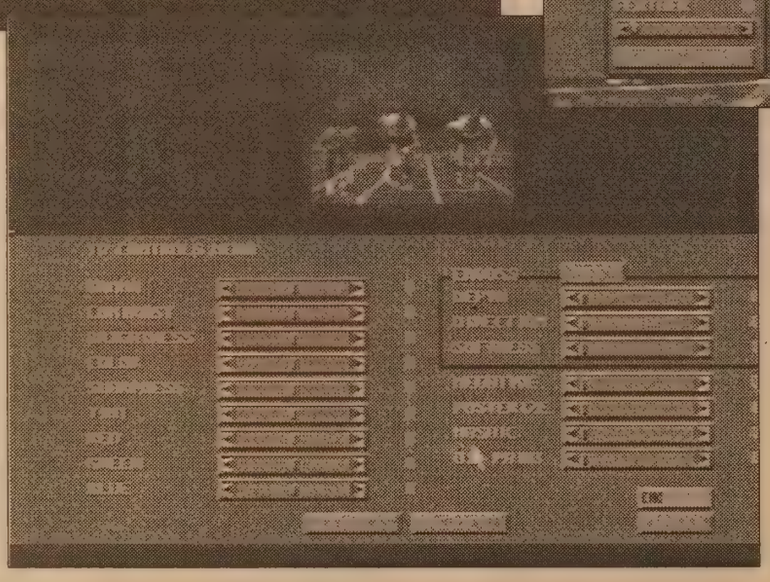

As you would expect, you can copy between Color Boxes, swap contents, and create a spread between two Boxes. Individual colors can be defined using either RGB or HSV (hue, saturation, and value) values. There is also a 24-bit hue and saturation color wheel called a "Color Cube" and a Value slider available to visually fix a color.

SPREADS

The right side of the Palette menu is devoted to custom "spreads." Essentially this is a color range creation tool, but goes beyond the usual implementation. As you add colors to the "Spread Preview Bar," a gradient is formed based on where you place the colors on the bar. A color can be repositioned by simply dragging its position indicator, and there is an option to evenly space all colors. Color order can be globally rotated or inverted. Individual colors can be deleted or duplicated as well.

Spreads can be linear, circular, or radial; you can adjust the Z-axis rotation of linear and radial spreads.

DRAWING TOOLS

The basic drawing tools like line, curve, rectangle, circle, ellipse, polygon, free-hand shape, fill, text, airbrush, etc., are present and accounted for. The cutting tool is used in conjunction with any of the geometric shape drawing tools (i.e., circle, polygon, etc.). Magnification is fixed at 75, 100, 200, 400, and 800% of normal.

In the Pen menu, you can choose between circle, oval, and rectangle for your pen shape. Besides just allowing you to adjust the pen size, you can also adjust its width and even rotate it. (Obviously, the latter doesn't do much if your pen shape is a circle.) Adjustable feathering is available to give brush strokes a soft, professional-looking edge. The Fade setting allows you to define how the applied pen or brush will gradually increase or decrease in one continuous stroke.

FILLS

The common Fill tool has some interesting nuances in Alpha Paint. Not only can you fill an area with a brush, but you have the option of automatically scaling it to fit the area or having it warped to fill the area. A tolerance level can be set to determine how close to the original color a pixel can be when Alpha Paint calculates the fill area.

TEXT

Alpha Paint supports Toaster, Chroma, and PostScript fonts. Adjustable attributes include height, width, italics, character spacing, Z-axis rotation, line spacing, and line justification. With PostScript fonts, you have the option of wrapping the text around a circle. Once the text has been defined, you can then apply brush attributes, like rotation, shadows, etc.

BRUSHES

Brushes can be loaded (and saved) from the Brush menu in addition to being cut-out from the main screen. When loading a brush you have the options of trimming black pixels (RGB 0,0,0) from the edges and adjusting the aspect ratio for (square pixel) brushes created on the Macintosh. From this menu you also set the global brush graphics and video alpha channels.

You may also size and rotate a brush manually or interactively. When rotating a brush, you can position and rotate in the X, Y, and Z dimensions, and also set the focal length. This allows you to set the visual depth of field making the brush appear flat or elongated along the Z-axis.

Brushes can be given a beveled edge, outlined, and extruded. There are also provisions for shadows, as well as back-lit glow and neon-outline effects, all with adjustable parameters. As an alternative to a brush's original colors, you can

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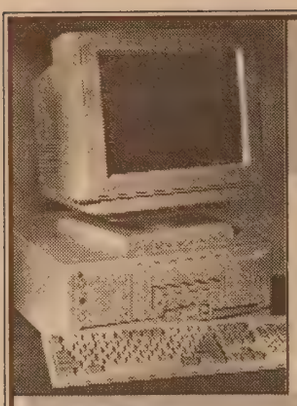

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AMIGA *continued...*

change them to any of the Color Boxes or even map a new image on it. Edges can be feathered.

You can set independent graphics and video visibility parameters, which are used in conjunction with the brush alpha channel settings. Most of these brush attributes are equally applicable when you're drawing with a pen or adding text.

The brush tools are also used for compositing full-screen images using alpha channels. For example, by selecting a left-to-right greyscale-gradient Color Box for the graphics alpha channel, a full-screen brush can be stamped down and fade in horizontally over a colored background.

DRAWING MODES

In addition to a normal drawing mode there is Rub Thru, Erase, Hue, Colorize, Negative, Smear, Watercolor, Mix, Lighten, Darken, Smooth, Sharpen, Gamma, Contrast, and Oil Paint.

Rub Thru lets you paint the swap screen image into the main screen. The Erase mode replaces pixels with the current background color. Hue replaces the color hue of a pixel with that of the current Color Box. Colorize replaces the hue and saturation and can be used to colorize greyscale images. The Negative mode reverses the RGB value of pixels.

> You could duplicate everything that Alpha Paint does using other programs you probably already have. However, Alpha Paint puts it all there right in front of you, wrapped up in one straightforward, easy-to-use package. If you make your living with the Toaster, you need this program.

The Smear mode smudges areas of an image. Watercolor paints with the current Color Box, but blends in existing pixels. Mix is similar but uses an existing color in the image instead of the Color Box. Smooth can be used to blur the edges of an object while Sharpen enhances edges. Gamma and Contrast adjust the difference between light and dark colors. The Oil Paint mode applies an "Impressionist painting style" that mimics oil painting.

To make using things like Rub Thru a little easier, there is an "Onion Skin" option. This allows the swap screen to show thru at 25% visibility.

TV CONTROLS

The TV Controls menu includes standard image correction parameters like gamma, contrast, brightness, color, sharpness, tint, red, green, and blue. Additionally, there are special effect operators like Embossing, Negative, Posterize, Mosaic, and Oil Paint. Embossing adds an engraved look to an image. Posterize reduces the number of colors yielding a "blown-up" poster-like effect. Mosaic pixelizes the picture into squares. Negative and Oil Paint work as described previously for Drawing modes.

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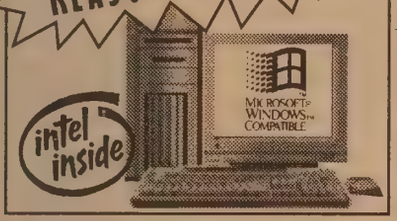

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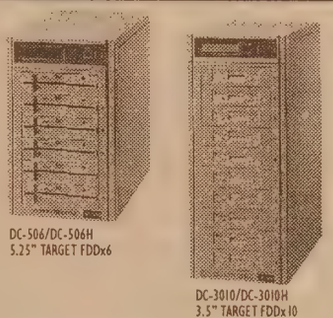

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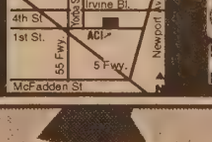

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AMIGA *continued...*

CHANGE YOUR MIND

If you're like me and love to try many things out before committing (OK, some people call these mistakes), you'll be glad to know that Alpha Paint features multiple undo and redo, limited only by your RAM.

Moreover, redo is taken one step further with Redo+. This will reperform the last drawing operation using the existing paint attributes. So let's say you just painstakingly outlined an object by hand, but you forgot you wanted a feathered border. Well, just undo your first attempt, adjust the feathering setting, and hit Redo+. This can save you so much time when you're trying to tweak something to get "just" the right effect.

Where appropriate, Alpha Paint features preview windows that give you a rough idea of what the results of your settings will be. Definitely a time-saver and something we're seeing more and more of in newer applications.

FILE FORMATS

Alpha Paint can save images in Framestore, IFF24, and JPEG formats. Brushes can be saved in IFF24 only. Alpha Paint can load these formats, plus rendered Toaster/Montage CG pages and all IFF images, except low-res HAM6. (Note: Montage is InnoVision's Toaster CG product.)

GRAPHICS ON VIDEO

The Play menu combines some basic functions of the Toaster Switcher and Alpha Paint graphics. Generally this will be used to overlay graphics on video; however, you can also overlay video on video with an alpha channel mask. For transitions, a fixed-speed fade and cut are provided.

LITTLE BIG THINGS

Alpha Paint includes many little things designed to save time and make your life easier. For example, if you want a brush automatically pasted down in the center of the screen, just press the Return key.

The Clear-To tool lets you quickly clear the screen to any color/pattern in the palette. Often after you've adjusted a bunch of settings for a certain effect, you may want to clear out all settings and start fresh for the next one. Just hit the F1 key and everything is reset to the default settings, but the image is left untouched.

SYSTEM REQUIREMENTS

Alpha Paint requires Video Toaster 2.0 or greater, 12MB Fast RAM, 1MB Chip RAM, 10MB hard drive space, a 68030 CPU or better, and AmigaDOS 1.3+. Alpha Paint does some serious calculations and you'll want all of the horsepower you can get!

The program also supports Wacom and CalComp pressure-sensitive drawing tablets.

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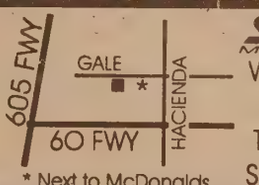

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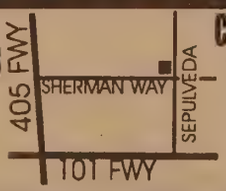

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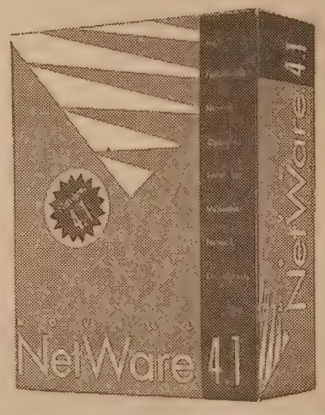

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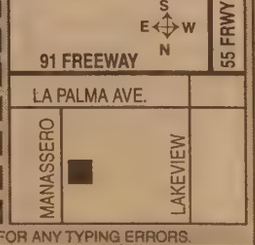

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AMIGA *continued...*

COMMENTS AND CRITICISMS

Alpha Paint really needs ARexx support. Besides just being able to batch process images, it would allow you to animate some of the effects.

It would also be nice if *all* option parameters could be set using the mouse, instead of only some. This would minimize having to move your hand back and forth between the mouse and keyboard. The mini-sliders introduced in LightWave 3.5 would be perfect.

Another limitation is that you cannot multitask out of Alpha Paint and do something else. It basically takes over the whole machine. (I'am told, however, that this was a necessary evil to get Alpha Paint to perform its magic.)

I also wish that the controls interface optionally or simultaneously appeared on the Amiga RGB monitor. Some Toaster users (like me) have their Toaster monitors off to the side; they may not be located in a position where it is comfortable to do detailed work. Interestingly, you can faintly see the interface on the Amiga RGB monitor if you turn the brightness up.

CONCLUSION

Alpha Paint is one heck of a program. It comes with a thick three-ring notebook manual with many tutorials to have you up and running in no time. You'll soon be able to whip up a beautiful complex video graphic in just minutes.

I'll be the first to admit that you could duplicate everything that Alpha Paint does using other programs you probably already have. However, Alpha Paint puts it all there right in front of you. Right at your fingertips. All wrapped up in one straightforward, easy-to-use package. If you make your living with the Toaster, you need this program. It's priced a bit higher than other Amiga paint programs, but it will save you time and quickly pay for itself. ■

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RESOURCES:

AlphaPaint, $699.95 (available direct for $399 for a limited time)
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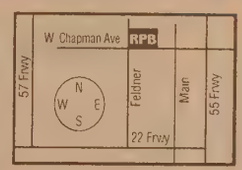

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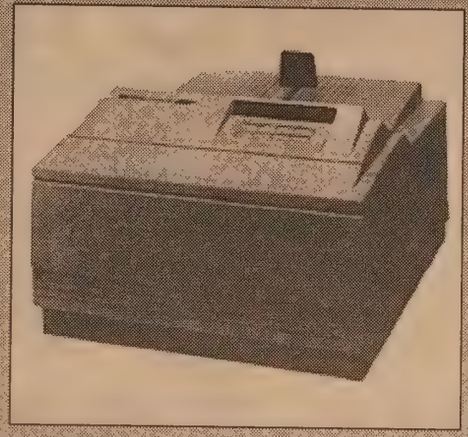

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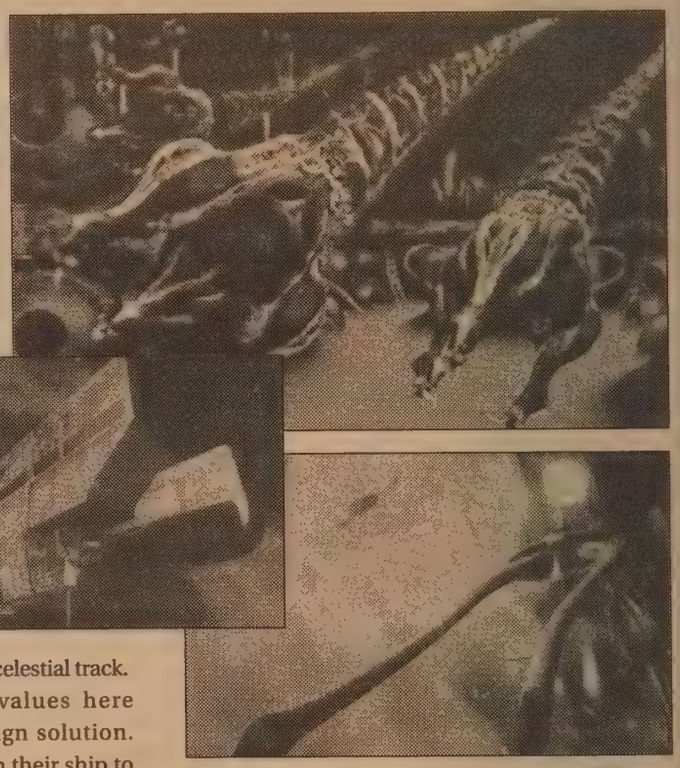
THE DAEDALUS ENCOUNTER *continued...*

The ***graphics and animation*** in *Daedalus* are achieved mostly with Autodesk's 3D Studio, and are beautiful in an ***eerie, creepy*** biomorphic language of atmospheres, structures, machines, and ***beings.***



As producers begin to add more recognizable talent value, they often must satisfy the pay scales of the Screen Actor's Guild (SAG) and the American Federation of Television and Radio Artists (AFTRA). Union performers have reportedly earned more than $4 million from appearing in interactive projects in the last year and a half. Advance notices of upcoming title releases predict a flood of stars, celebrities, personalities, and brand recognition characters.

When producers turn from spinning their own tales to hiring the pros, other economics come into play. A new Writers Guild of America (WGA) agreement with the Alliance of Motion Picture & TV Producers (AMPTP) will give professional writers a bigger share of proceeds from the interactive repurposing of their material, according to *Daily Variety.* Conversely, producers are finding it less expensive and complicated to commission original music than to license established tunes from the American Society of Composers, Authors, and Publishers (ASCAP).

DRAMATIC DAEDALUS

As "Kat," actress Eileen Weisinger did a great job in Mechadeus's *Critical Path*, but to meet the new mass market and to keep up with the competition, the company felt that they had to spring for nationally recognized talent. At that, they hardly reached the Sigourney Weaver/Harrison Ford level here. Tia Carrere (*True Lies, Wayne's World*) as Ari, and Christian Bocher (*Total Exposure, Melrose Place*) as Zack, are the contentious protagonists.

In a very cinematic opening sequence, we see the pair fight in the heat of space battle as their interceptor takes a hit and they're ejected like burnt toast. The intro then positions your player role as Casey, the shipmate whose battle injuries left you reborn a cyborg—a brain in a motile probe sphere. Most of the exploration modes are seen through the video window in your cerebral control panel in the program's well-executed animation flybys. You're sort of the R2D2 of the crew, and are called upon to make sophisticated analyses of alien artifacts and to search for and retrieve objects.

The intro reintroduces the cast as interstellar war veterans now turned independent salvagers. They discover and crash on an ailing alien spacer that will hurl them all into a flaming sun if they (i.e., you, the player) can't solve the game's intricate geometrical puzzle barriers and figure out how to get the enormous vessel back on its celestial track.

The advanced production values here demonstrate an interesting design solution. When Tia and Zack do an EVA from their ship to the alien hull, we see them in spacesuits that are 3-D models created with computer graphics, while their faces are live video files mapped behind the visors.

The graphics and animation in *Daedalus* are achieved mostly with Autodesk's 3D Studio, and are beautiful in an eerie, creepy biomorphic language of atmospheres, structures, machines, and beings. The smooth live action video is composited seamlessly into the fantastic scenes. The insectoid aliens are convincingly rendered and animated, and the special effects welltimed. The lighting on the live action was keyed and patterned to match the graphics so that the characters really seemed like they were there. Well, at least their bodies....

BLUE PLANET

It's hard enough for a good screen actor to project voice and character and action without having to continually imagine and make up an environment that isn't there, but that's just what these actors had to do, working in the twilight zone of a blue screen sound studio. Say what you will about Steven Spielberg, it takes one hell of a director to get people to react so convincingly to stuff that really isn't there as they did in *Jurassic Park.*

The blue screen process allows the producer to insert different backgrounds in a live action scene from photos, film, paintings, and computer graphics. By the use of blue and red filters in post production or live on television, male and female mattes are "married" in the final image. This is how the TV weatherperson who gesticulates in front of a blank blue screen in the studio can appear on the news pointing to animated thunderstorms on a map of Kansas. Only by looking at the studio monitor off-set can they get an inkling of where they are in the picture.

Our multimedia heroes had no such comfy reference monitor. Unlike the cast of *Aliens* who had sets, partials, flats, and practicals, Carrere and Bocher had little to work with. Just a few guides, marks, and templates to walk, run, jump, fall, and shoot from while pretending to react to the imagined alien weirdness of it.

What they really saw was blue. Thanks to the strong direction of Scott Ewers, they got through the ten straight days of the blue shoot without going spastic.

All that said, the biggest weakness in these composite productions, and certainly here in *Daedalus*, is how the talent tends to lose it. There were moments of contemplation and several action sequences that really worked and

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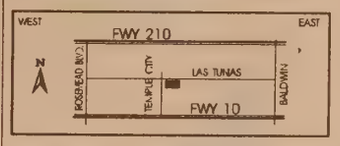

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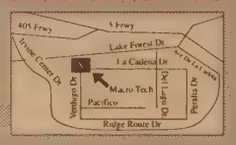

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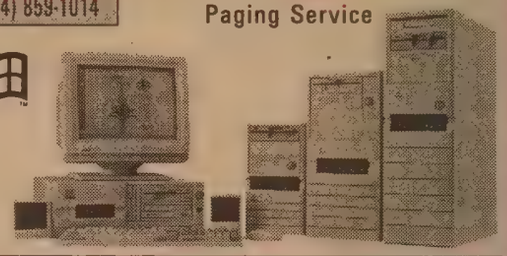

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THE DAEDALUS ENCOUNTER *continued...*

sucked you into their virtual space. Too often, though, the actors failed to convince that they were really on any alien ship, and related to each other much as if they were cruising a strip mall in Encino. Even within the comparative "Game Boy" production values of *Critical Path*, Eileen Weisinger's blue screen time was always convincing. The linear, crisis-driven story put her through some moves as frantic as some that Linda Hamilton emoted in *Terminator*, and she never lost her grip.

A questionable choice of tone in *Daedalus*, and in more other titles than I would like to admit, was the dreadful sitcom-level dialog. It's one thing to trickle in some humor for dramatic range and character-rounding—it was done perfectly in *Aliens*—but here it defeats the willing suspension of disbelief, and distances rather than draws you into the fictive premise. And the scenic artwork was so good in this CD production that I wanted to see it on the big screen of the Coronet.

THE LIFE OF GAMES

Even with these flaws, *The Daedalus Encounter* is a major step onward in the evolution of multimedia as it finds its unique voice and form. As a game, *Daedalus* is structured not unlike Trilobyte's best-selling *The Seventh Guest*, and shares a few elements of Brøderbund's *Myst*. Like *Seventh Guest*, it is an interactive linear continuity in the serial form of puzzle "gates," much like stations along a subway line, which you the player must solve one at a time in order to progress any further in the plot.

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With *Myst*, there was nobody home. In *Seventh Guest*, there were some live video "hauntings" that provided character color and atmosphere for the backstory. But in *Daedalus*, it is the live action characters that drive the continuity, and the game becomes more like a movie. That's the way entertainment multimedia is going. Which draws into question whether it is time to reexamine the antiquated traditional game structure now undergoing fusion with the 100-year-old plot-driven structure of the motion picture.

It's time for these games to grow up. In the age of the five hundred channels, as adults, *we* should be able to choose how and when we play this game that we paid for. *Daedalus* allows three levels of play skill, as do most of them. That's not far enough. We should be able to choose to "see the movie, play the movie, ride the movie" however we feel. That means if we want to, we can race and flow with the interactive movie and skip the puzzles, and always be able to save at any point. Or, which is more like the brief snatches of time here and there most of us really have to play a game, to call up any puzzle from the game's library of puzzles when that's what we feel like doing. (The puzzles in *Daedalus* are quite nicely crafted.)

Game guru Chris Crawford said it out loud in the May issue of *Morph's Outpost on the Digital Frontier*: "...the game aficionados, the guys that live and breathe the game, give you feedback. The poor slob who gets clobbered at the outset is not going to publicize his incompetence by complaining that the game is too hard. He'll just quietly remove it from his hard disk and never buy another." ■

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Genisys

Genisys Multi Media System

- 486DX2-66 VLB Multi Media System
- 4 MB RAM
- Med Tower Case with P/S (H)
- 101-Key Enhanced Keyboard
- 14" SVGA N/I Monitor (.28)
- VLB 1MB SVGA
- VLB Enhance HD/FD Controller
- 2-Serial, 1-Parallel & 1-Game
- 420MB IDE Hard Drive
- 3.5" 1.44MB Floppy Drive
- High Resolution Serial Mouse
- 2X CD ROM Drive
- SB Compatible 16-Bit Sound Card
- 4-Watt Stereo Speakers
- Grolier Multi Media Encyclopedia

Colt 66 Multi-Media

$999

(DX2-80&DX4-100 Available)

System available in Black

JULY 4th *special add on !!

14.4 Internal Fax/Data/Voice Modem ..... Add $60

& get 21-CD Titles free (for Colt Multi Media Only)

Genisys 486DX2-66 VLB

- 486DX2-66 VLB, 4MB RAM
- Mini Tower Case with P/S
- 101-Key Enhanced Keyboard
- 14" SVGA N/I Monitor (.28)
- VLB 1MB SVGA Adaptor
- VLB HD/FD Cntrl, 2S/1P/1G
- 420MB H/D & 1.44MB F/D
- High Resolution Serial Mouse

$855

Genisys "Work Horse"

- 486SLC-33, 2MB RAM
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- 101-Key Enhanced Keyboard
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- ISA HD/FD Cntrl, 2S/1P/1G
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Note: International Quantity Purchases - we can drop ship to Eastern Bloc Locations

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Conner Peripherals 1.08GByte SCSI-II	
Conner Peripherals 1.2GByte IDE	
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Maxtor 270MB IDE	
Maxtor 405MB IDE	
Maxtor 540MB IDE	
Maxtor 850MB IDE	
Maxtor 1.05GByte IDE	
Maxtor 1.2GByte IDE	
Maxtor 1.6GByte IDE (Call)	
Quantum 420MB IDE	
Quantum 540MB IDE	
Quantum 540MB SCSI	
Quantum 730MB IDE	
Quantum 1.08GByte SCSI-II	
Quantum 2.0GByte SCSI-II	
Quantum 4.0GByte SCSI-II	
Samsung 420MB IDE (2-Year Warranty)	
Samsung 540MB IDE (2-Year Warranty)	
Seagate 850MB IDE	Call
Seagate 1.05GByte IDE	Call
WD Caviar 2540 540MB IDE (11ms)	Call
WD Caviar 730MB IDE	Call
WD Caviar 850MB IDE	
WD Caviar 1.08GByte IDE	Call
WD Caviar 1.2GByte IDE	

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Teac 5.25" 1.2MB / 3.5" 1.44MB (Beige)	$47/$31
Teac 5.25" 1.2MB / 3.5" 1.44MB (Black)	$51/$41
Mitsumi 5.25" 1.2MB / 3.5" 1.44MB	$39/$28
Teac FD505 2 in 1 Combo (1.2+1.44MB)	$82

MICE

Hi-res Mouse(Serial)	$9
Truemouse 1X/AX 300 (Serial) w/Mouse Pad & Pocket	$15
Trackball TK-300	$35
Microsoft Mouse Serial/Bus	$24/$2
BLACK 3 Button (Serial) Hi-res Mouse	$18
Mouse Pad	$2

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Colorado 250MB Internal (Special)	$119
Colorado 350MB Internal	$130
Colorado 700MB Internal	$180
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Colorado T400 (1GByte) Internal	Call
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2X Speed Panasonic 562/3	$110	$120
2X Speed Sony 55E (IDE)	$110	$120
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4X Speed Panasonic (IDE) *(New-Special)*	$169	
4X Speed Teac (Panasonic Interface)	$165	
4X Speed Teac w/1.44MB Floppy Drive *(New)*	$199	
4X Speed Toshiba 3302B (IDE)	Call	
4X Speed Toshiba 3501B (SCSI)	$279	
4X Speed Mitsumi (IDE)		

SOUND CARDS & SPEAKERS	OEM	Retail
Creative Technology Sound Cards		
Sound Blaster 16 Vibra MCD	$90	
Sound Blaster 16 Vibra IDE	$88	
Sound Blaster 16 MCD		$129
Sound Blaster 16 MCD w/ASP		
Sound Blaster 16 SCSI	$108	
Sound Blaster 16 SCSI w/ASP		
Sound Blaster AWE32 Value Edition		
Sound Blaster AWE32 + Wave MCD		
Acer / Opti Chip 16-Bit (by Acer) (SB16 MCD/IDE)		
Sound Blaster 16 Compatible SCSI		
SP55 Mini Speakers 4-Watt		
SP691 Amplified Speakers 14-Watt		
SP115 Amplified Speakers 115-Watt		
SP170 Typhoon 170-Watt Surround Sound		

MULTI MEDIA KITS

Sound Blaster New Discovery w/18 Titles (2X)

Sound Blaster Digital Schoolhouse w/20 Titles (2X)

Sound Blaster Discovery w/4X CD ROM

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Sound Blaster 16 SCSI Multi Media Kit - SB16 SCSI, 4-W Spkr, 21 CD Titles

with NEC 511 4X SCI — Call

with Toshiba 3301B 4X SCSI — Call

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with 115 Watt Spkr — $269

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4X Quad Speed CD ROM, 16-Bit Sound Card, MS Golf, Entertainment Works Money, Encarta 95 & Scenes — $285

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BIS 14.4CD Internal Fax/Data/Voice

BIS 28.8CD External Fax/Data (Hayes Comptatible) *V.34*

US Robotics 14.4CD Int./Ext. Fax/Data *(Special)*

US Robotics 28.8CD Int./Ext. Fax/Data

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UL Power Surge Panel Protector	$19
with Telephone, Modem, Fax Protection (Jack)	$25
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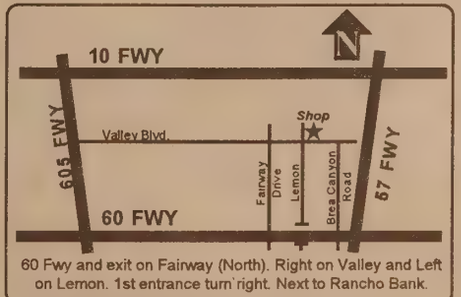

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Modular Design

- Intel 80486DX4-100 CPU
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- Removable floppy for 2nd battery
- Ni-MH battery, PCMCIA III
- Removable hard drive caddy
- Build-in Pointer mouse w/16-bit sound card

DX4-100, 16/540, Du-Scan ...$2355.00

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Multi-Media

- Pentium 90 CPU
- 11.4" / 10.4" DSTN/ TFT active color large screen
- 8 MB RAM, 256KB External Cache memory
- PCI-IDE controller with 520 MB hard drive
- PCI SVGA card w/ 1 MB VRAM, 1.44MB FD
- 1 Enhanced Parallel Port, 1 UART 16550 serial port
- Ni-MH battery, PCMCIA III slot, track-ball mouse
- 16-bit sound card w/speaker & microphone

P-90, 8/540, Du-Scan ...$2876.00

TROGON 380

- Intel 80486DX4-75 CPU
- 4 MB RAM, 520 MB hard disk
- VLB SVGA 1 MB, 9.5" TFT active color screen
- VLB IDE controller, 1.44 MB FD
- 16-bit sound card w/ speaker & Microphone
- PCMCIA III, track-ball mouse

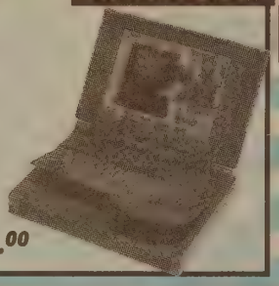
DX4-75, 4/540, Active ...$2495

TROGON 600

CD-ROM Build-in

TATUNG

- Intel 80486DX4-75 CPU
- 8 MB RAM, 340 MB hard disk
- Build-in Double Speed CD-ROM drive
- 16-bit sound card w/speaker
- 10.4" DSTN color screen, Ext. 1.44 MB FD
- PCMCIA III, track-ball mouse

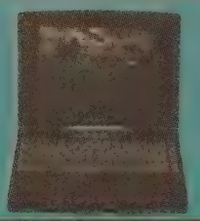


DX4-75, 8/340, Du-Scan ...$2385.00

BYTE Magazine 4/95 Editoris Choice

TROGON 500

- Intel 80486DX4-75 CPU
- 4 MB RAM, 540 MB hard drive
- 16-bit sound card w/speaker
- PCMCIA III, Track-ball mouse
- VLB 9.5" DSTN color display
- Ni-MH battery with indicator
- 1.44 MB floppy drive



DX4-75, 4/540, Du-Scan ...$1795.00

2 year factory warranty

TROGON 900

- Intel 80486DX4-75 CPU
- 8 MB RAM, 340 MB hard disk
- 1st w/ build-in 2x CD-ROM & Floppy drive
- PCMCIA III, Pointer Mouse
- 16-bit sound card w/ Unique microphone arm
- Build-in MIDI port
- Removable floppy drive for optional 2nd battery, optional PC-Video, TV-Tuner, MPEG decoder

DX4-75, 8/340, Du-Scan ...$256

Canon 150C

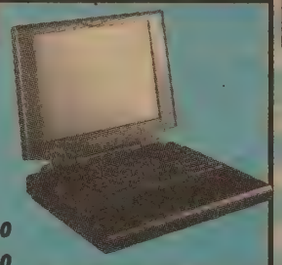
Computing with stylus

- Intel 486DX2-66 CPU
- 4 MB RAM, up to 32 MB RAM
- 340 MB hard drive
- PCMCIA III, Digital Audio
- Build-in track-ball, speaker
- MS DOS/ WINDOWS, Claris Works
- Sidekick for Windows
- 1 year roadside/mail-in warranty

DX2-66, 4/340, Du-Scan ...$2149.00

Canon 200LS

- 11.3" DSTN color screen
- Track Point Pointing Device
- PCMCIA III, 16-bit sound card
- Ni-MH battery, 1.44 MB FD
- MS DOS, WINDOWS loaded
- Sidekick for Windows
- Official Airline Guide



DX2-66, 4/340, DSTN ...$2450.00

DX4/100, 8/520, DSTN ...$2999.00

11.3i DSTN Color Screen

Canon NoteJ

- Build-in 360 dpi Bubble Jet printer
- 9.5" DSTN color screen
- PCMCIA III slot, Canon Trackball mouse

NoteJet 486SX-33 4 MB RAM, 340M

NoteJet 486SX-33 4 MB RAM, 340M

NoteJet DX4/75 8 MB RAM, 500MB

NoteJet DX4/100 8 MB RAM, 810 M

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BJC-70 color

720 x 360 dpi

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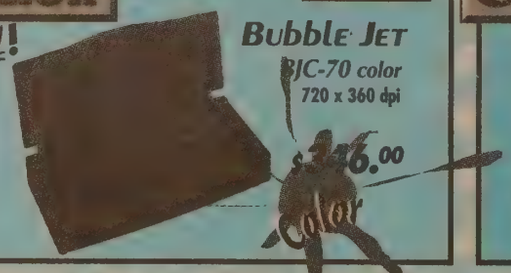
Color



Canon — Portable!

Bubble Jet

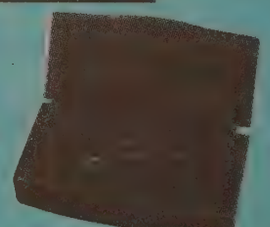
BJ-30

720 x 360 dpi

256 Gray Scale

$259.00

New!



Canon — 3 Year Warran

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LDP-430

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3 Years Warrant

$439.0

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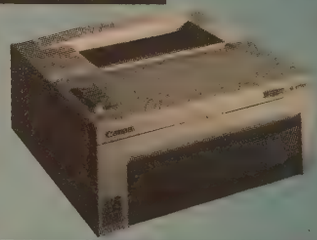


Canon — 4 Cartridges!

Bubble Jet

BJC-600 color

720 x 360 dpi

$445.00

Color

Canon — 2 Cartridges!

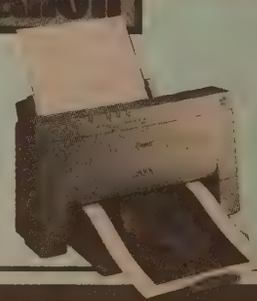
Bubble Jet

BJC-4000 color

720 x 360 dpi

$346.00

Color



Canon — Free Cab

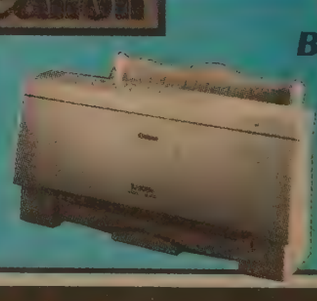
Bubble J

BJ-20

720 x 360

256 Gray

$217.



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Intel Pentium P5-75 ...$2158.00
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- 540 MB IDE hard disk
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- Tatung 15î Non-Interlace, .28mm, flat screen, MPR-II
- 2 UART-16550 serial ports
- 1 Enhanced Parallel Port
- Enhanced 101-key keyboard
- 16-bit Ethernet card

Intel 486DX-33 ...$1456.00
Intel 486DX4-100 ...$1585.00
Intel Pentium P5-75 ...$1638.00
Intel Pentium P5-90 ...$1739.00

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- Intel Triton chip-set based Pentium motherboard
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- On-board 2 UART 16550 serial ports
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- SoundBlaster 16 MCD sound card
- TEAC 1.44 MB floppy drive
- Focus 2001 keyboard with hard cover
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Pentium 90 Mhz ...$3198.00
Pentium 120 Mhz ...CALL

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d) Plextor 4Plex 4x SCSI-2 Internal CD-ROM	...$ 355.00
d) APC Smart-UPS 600 VA power backup unit	...$ 415.00
e) APC Smart-UPS 900 VA power backup unit	...$ 515.00
f) Powerchute Plus Software for Novell	...$ 75.00
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I) US Robotics 28.8Kbaud internal Fax/Modem	...$ 249.00
j) 3COM Linkbuilder FMS II 12 port HUB TP	...$ 625.00
k) Tiger 6 port Twisted Pair HUB RJ-45	...$ 175.00

WIN-Station Options

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b) Upgrade to 1 GigaByte Enhanced IDE hard disk	...$ 190.00
c) Double Speed IDE CD-ROM drive	...$ 115.00
d) Quad Speed IDE CD-ROM drive	...$ 195.00
e) SoundBlaster-16 MCD Sound Card	...$ 85.00
f) Power Speaker set	...$ 55.00
g) CONNER 850 MB Internal Tape Backup drive w/cart.	...$ 299.00
h) Memory upgrade from 8 MB to 16 MB RAM	...$ 325.00
I) Upgrade 15î Color monitor to 17i MAG DX17-F	...$ 325.00

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c) Netware 4.1 25-User	...$2075.00
d) Netware 4.1 50 - 1000 User	...CALL

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- Multi-sync
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Resources

Calendar Of Events

Conventions, Shows, Special Events

July

July 1–2 American Computer Mega Show. Pasadena Convention Center. American Mega Shows. Call: (818)961-3782.

July 1–2 Hollywood Park Convention And Casino Computer Super Show. Hollywood Park Super Show Productions Call: 1-800-459-6105.

July 8 Computer Marketplace. Reseda. National Productions. Call: 1-800-800-5600.

July 8 Robert Austin Computer Show. Anaheim Stadium. Robert Austin Corp. Call: 1-800-346-0100.

July 9 Computer Marketplace. Buena Park. National Productions. Call: 1-800-800-5600.

July 9–10 Mactivity/Web: The Macintosh WebMasters University Conference. San Jose. Mactivity. Call: 1-800-798-2928 or *http://www.mactivity.com/macweb/mactivityweb.html* .

July 11–13 Mactivity '95: The Macintosh Connectivity Conference. San Jose. Mactivity. Call: 1-800-798-2928.

July 15–16 Computer Marketplace. Pomona. National Productions. Call: 1-800-800-5600.

July 16 San Diego North County Computer Show. Escondido. North County Computer Show. Call: Michael J. Davis Sr., at (619)489-2250.

July 18–21 OS/2 World Conference And Exhibition. Boston. Miller Freeman, Inc., Call: Sherry Nykiel, (415)905-2354.

July 22 Computer Marketplace. Santa Barbara. National Productions. Call: 1-800-800-5600.

July 29–30 Robert Austin Computer Show. Anaheim Stadium. Robert Austin Corp. Call: 1-800-346-0100.

July 30 ACP Computer Swap Meet. Santa Ana. ACP. Call: (714)558-8813.

July 31–August 4 Tools USA Conference. Santa Barbara. Smith & Shows. Call: (805)685-1006.

CALL FOR ENTRIES

Macromedia International User Conference And Exhibition

Macromedia, in preparation for its 1995 Macromedia International User Conference and Exhibition, is soliciting submissions of top multimedia, print, and 3-D digital art projects from multimedia developers, graphic designers, and 3-D artists. Submitted projects must be developed using one or more of Macromedia's products. Entries will be considered for the Multimedia Gallery of the conference. Projects chosen to be displayed in the Multimedia Gallery will be the finalists for the User Conference's People's Choice Awards. The deadline for entries is August 1. For more information and to request an application, contact Sheri Kramer at *gallery@Macromedia.com* or (415)252-2000.

JULY 15–16

Computer Marketplace

FAIRPLEX EXPO CENTER, POMONA

If you're in the market for computer hardware, software, or accessories, check out Computer Marketplace. Hundreds of knowledgeable computer retailers and businesses demonstrate their products and service your needs. The huge inventory includes multimedia systems, notebook computers, modems, CD-ROM drives, printers, scanners, sound cards, software, accessories, and more—all at low, wholesale prices. Computer Marketplace has expanded into two buildings at the Fairplex Expo Center. It is open from 10 am to 5 pm and admission is $7, parking is $4. Call 1-800-800-5600 for more information.

JULY 9–10

Mactivity/Web: The Macintosh WebMasters University Conference

SAN JOSE CONVENTION CENTER

Mactivity/Web is a conference for Macintosh World Wide Web developers. It will be the event for exploring the options and solutions available for building powerful Web sites based on the Macintosh OS. Mactivity/Web will host two tracks of technical sessions: one geared toward WebMasters just starting to explore the power of Macintosh Web sites, the other for advanced WebMasters and developers. The cost for the conference is $495 for two full days and evenings of sessions, hands-on tutorials, product presentations, and more. Since Mactivity/Web will be held in conjunction with Mactivity'95: The Macintosh Connectivity Conference, the cost will cover admission to both conferences. For more information or to register, set your browser to ***http://www.mactivity.com/macweb/mactivityweb.html*** or call (408)354-2500 or 1-800-798-2928.

August

August 2–3 NetWare User Conference. Anaheim. NetWare Users International. Call: (801)429-5657.

August 2–4 Virtual Reality And Persons With Disabilities Conference. San Francisco. Cal State Northridge Center on Disabilities. Call: (818)885-2578 or *ltm@csun.edu* .

August 5 Computer Super Shows. Super Show Productions. Glendale Civic Auditorium. Call: 1-800-459-6105.

August 12 Multimedia Artists Show Their Award-Winning Projects Presentation. Los Angeles. UCLA Extension. Call: (310)206-1422.

August 16–19 Sixth Annual Macintosh Summit Conference. UC Santa Barbara. UCSB Extension. Call: (805)893-2811.

August 17–20 The California Computer Expo. San Diego Convention Center. The California Computer Expo. Call: 1-800-573-3247.

August 19 Robert Austin Computer Show. Anaheim Stadium. Robert Austin Corp. Call: 1-800-346-0100.

August 26 Computer Super Shows. Super Show Productions. Riverside Convention Center. Call: 1-800-459-6105.

October

October 7–11 International Exhibition Of Computer And Applications For China. Shanghai, China. CATE, Inc. Call: (415)903-2288.

October 17–19 Office Tech '95 Expo. Detroit, MI. Office Tech Expos, Inc. Call: Cindy Hunter, (810)643-3317.

Classes, Seminars, Workshops

June

June 25 Basic Macintosh Operations Class. Los Angeles. UCLA Extension. Call: (310)206-1422.

June 26 Intermediate Excel Class. Carson. Intelligence, Inc. Call: (909)788-1922.

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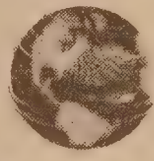

July 8 Saturday — **RESEDA** Sherman Square Entertainment Center
From the 101 Freeway take the Reseda offramp, turn left (east) to Sherman Way and turn right. Go one block to Canby Street. 18430 Sherman Way.

July 9 Sunday — **BUENA PARK** Sequoia Conference Center
Take the Beach Blvd. exit off the 91 Freeway. Go one block north to 7530 Orangethorpe.

July 15 & 16 Saturday & Sunday — **POMONA** Fairplex (LA Fairgrounds)
Exit Highway 10 at Fairplex Drive. Go north to McKinley Avenue, turn right. Turn left on White Avenue to Gate 14.

July 22 Saturday — **SANTA BARBARA** Earl Warren Showgrounds
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July 1-2
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200 booths
July 22-23
Sat & Sun 10 - 5PM
SHRINE Auditorium
700 W. 32nd Street, L.A. (Across from USC)
July 29-30
Sat & Sun 10 - 5PM
Cal State Northridge
18111 Nordhoff Street (Indoor Show at Student Union)
San Bernardino Best Show
Aug 12-13
Sat & Sun 10 - 5PM
National Orange Show (SB)
689 South "E" Street, San Bernardino
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Aug 19-20
Cal State Northridge
Sept 2-3
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Calendar Of Events *continued...*

June 26–August 7 QuarkXPress Class. Los Angeles. UCLA Extension. Call: (310)206-1422.

June 26–September 11 Interactive Multimedia Process With Overview Class. Los Angeles. UCLA Extension. Call: (310)206-1422.

June 27 & 29 Internet "After Hours" Tour Through Cyberspace Class. Irvine. Synsis. Call: (714)253-5715.

June 27 & 29 Internet Essential Business Basics And Marketing Class. Irvine. Synsis. Call: (714)253-5715.

June 27 & 29 Internet How To Build A Business Presence Seminar. Irvine. Synsis. Call: (714)253-5715.

June 27–30 C Programming Hands-On Workshop. Los Angeles. The Learning Tree International. Call: 1-800-THE-TREE.

June 27–August 17 Animation And 3D Computer Graphics Using Alias Class. Riverside. UCR Extension. Call: 1-800-442-4990.

June 28–September 13 Excursions In Interactivity: A Field Study Of Location-Based Attractions Class. Los Angeles. UCLA Extension. Call: (310)825-1901 or *rmacales@unex.ucla.edu* .

June 28–September 13 Interactive Design: What Makes It Work? Class. Los Angeles. UCLA Extension. Call: (310)206-1422.

June 29 Enabling The Enterprise: Delivering World-Class Client/Server Applications With Microsoft Visual Basic Seminar. Los Angeles. SQA. Call: 1-800-228-9922.

June 29 Introduction To Windows 3.1 Class. Irvine. Computer Research Center. Call: (714)476-2333.

June 29–September 14 Interface Design Class. Los Angeles. UCLA Extension. Call: (310)206-1422.

July

July 6 Microsoft Access For Windows Class. Irvine. Computer Research Center. Call: (714)476-2333.

July 6–August 10 Adobe Photoshop Class. Los Angeles. UCLA Extension. Call: (310)206-1422.

July 8 Creating World Wide Web Sites On The Internet For The Entertainment Industry Seminar. Los Angeles. UCLA Extension. Call: (310)825-1901 or *rmacales@unex.ucla.edu* .

July 8 How To Build A PC Class. Irvine. Computer Research Center. Call: (714)476-2333.

July 8 ScriptX: A New Multimedia Toolkit For The Digital Industrial Revolution Class. Los Angeles. UCLA Extension. Call: (310)825-1901 or *rmacales@unex.ucla.edu* .

July 10–August 14 The Language Of Interactive Multimedia: A Seminar In Critical Analysis With Lloyd Pentecost. Los Angeles. UCLA Extension. Call: (310)825-1901 or *rmacales@unex.ucla.edu* .

July 11–14 CD-ROM Development Workshop: From Multimedia Publishing To Data Archival. Los Angeles. UCLA Extension. Call: (310)825-1901.

July 11–14 Software Configuration Management Class. Los Angeles. The Learning Tree International. Call: 1-800-THE-TREE.

July 12–26 Introduction To The Mac Class. Los Angeles. UCLA Extension. Call: (310)206-1422.

July 13 Microsoft Word 6.0 For Windows Class. Irvine. Computer

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July 8 Saturday — **GLENDALE CIVIC AUDITORIUM**
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July 23 Sunday — **RIVERSIDE CONVENTION CENTER**
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Resources

Calendar Of Events *continued...*

Research Center. Call: (714)476-2333.

July 13 Novell Network Management Class. Irvine. Computer Research Center. Call: (714)476-2333.

July 14 Software Licensing Agreements Class. Los Angeles. Center for Advanced Professional Development. Call: (714)261-0240.

July 18–21 High Speed Networks: ATM, SONET/SDH, FDDI, SMDS Seminar. Los Angeles. The Learning Tree International. Call: 1-800-THE-TREE.

July 20 Microsoft Excel 5.0 For Windows Class. Irvine. Computer Research Center. Call: (714)476-2333.

July 20–21 Data Communications And Networking Class. Los Angeles. Center for Advanced Professional Development. Call: (714)261-0240.

July 22 Introduction To Windows 3.1 Class. Irvine. Computer Research Center. Call: (714)476-2333.

July 23 Photo Retouching With Adobe Photoshop Class. Los Angeles. UCLA Extension. Call: (310)206-1422.

July 25–August 31 Introduction To Creating Digital Effects: An Intensive Silicon Graphics Workshop. Los Angeles. UCLA Extension. Call: (310)825-1901 or *rmacales@unex.ucla.edu* .

July 27 Microsoft PowerPoint 2.0 Windows Class. Irvine. Computer Research Center. Call: (714)476-2333.

July 27–28 Troubleshooting The Mac Workshop. Los Angeles. DataTech Institute. Call: (201)478-5400.

July 29 Microsoft Excel 5.0 For Windows Class. Irvine. Computer Research Center. Call: (714)476-2333.

August

August 5–6 Advanced 3D Studio Techniques Class. Los Angeles. UCLA Extension. Call: (310)825-1901 or *rmacales@unex.ucla.edu* .

August 9–September 13 QuarkXPress: Level II Class. Los Angeles. UCLA Extension. Call: (310)206-1422.

August 12 Digital Backlot: An Introduction To Digital Effects For Film And Television Class. Los Angeles. UCLA Extension. Call: (310)825-1901 or *rmacales@unex.ucla.edu* .

August 15–29 Introduction To Adobe Photoshop Class. Los Angeles. UCLA Extension. Call: (310)206-1422.

August 21–23 Software Safety Class. Los Angeles. UCLA Extension. Call: (310)825-1901.

August 30–31 Windows On Netware Class. Los Angeles. Center for Advanced Professional Development. Call: (714)261-0240.

September

September 5–8 Nonlinear Editing On The PC With D/Vision Pro Class. Los Angeles. UCLA Extension. Call: (310)825-1901 or *rmacales@unex.ucla.edu* .

September 10 & 17 Introduction To Lingo Class. Los Angeles. UCLA Extension. Call: (310)206-1422.

September 18–21 Object-Oriented Programming And Design Under The C++ Object Model Class. Los Angeles. UCLA Extension. Call: (310)825-1901.

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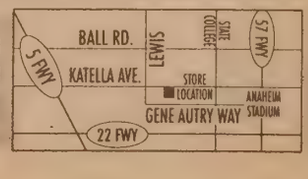

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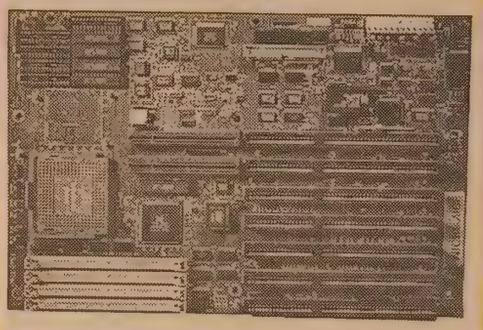

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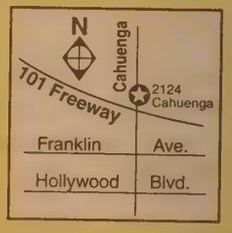

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EDEN—The Electronic Garden. (310)421-2420; (714)548-1900, 530-6335. Telnet edenbbs.com . 24 hrs., 14,400. 52 lines. Adults only "playground," full Internet access, WorldGroup for Windows. Sysop: Daniel Vesely. [Exp. #140.]

Hell's Door BBS. (310)429-7070, 903-5512, 943-4729; (714)891-6083. 8-N-1, 24 hrs., up to 28,800. Eight nodes. 70,000+ files, games, multinode chat, large adult section. Free. [Exp. #140.]

Hotel California. (310)407-1300, (714)437-1492. Telnet: kincyb.com . 24 hrs., 14,400–28,800. Full Internet! Games, adult GIFs, chat, forums. Low fee/no time limits! [Exp. #140.]

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LA Online. (213)936-1160; (310)372-4050, 445-0633; (818)577-2131; voice: (310)372-9364. 8-N-1, 1200–14,400. World and local news, calendar, movie times, shopping, graphical. Always free. [Exp. #139.]

Miller's Party Board. (310)815-0117. 300–14,400, telnet 38,800. 44 lines of pure fun! TradeWars, MajorMud, live chat, Internet. Free trial. Sysop: Jack Stern. [Exp. #140.]

Mr. Wonderful's Lair. (213)261-8055, (818)451-0874. 24 hrs., up to 28,800. Internet, echo mail, games, shareware, adult, 12 CDs. Free 14-day account. Sysop: Mr. Wonderful. [Exp. #139.]

No Name BBS. (213)727-0104; (310)274-9544, 424-8012, 768-1525, 841-6995; (805)250-0243, 522-7569; (818)502-9081, 704-8486, 785-3340. 14,400. 40 lines. Gay/bi/curious; chat, files, GIFs, events; adults, verification. Free trial. Sysop: Craig Hines. [Exp. #138.]

Pacific Coast Highway BBS. (213)953-9730; (310)323-5015, 842-8790; (805)250-1796; (818)366-1698, 785-0011, 883-5656. 24 hrs., 1200–14,400. Gay/bi/curious. Internet email, news; games; 10 CD-ROMs; adults only. Free trial. Sysop: Brad Haynes. [Exp. #138.]

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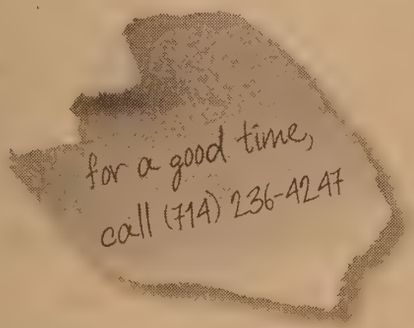

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BBS Spotlight

By John Wolcott

Welcome To The Hotel California

Choosing a bulletin board from the "BBS jungle" can be a difficult task, with most boards offering an astonishing array of features and some with even a new twist or two. Just such a BBS is Hotel California, located in Sante Fe Springs.

Online since 1993, sysop Richard Fujio at Kinetic Cybersystems started Hotel California as a side interest and was amazed at how quickly the "BBS family" grew. Hotel California stays current in providing new features for its twelve hundred subscribing members. Sixty-four phone lines appoint the system, connected to Practical Peripherals and US Robotics modems at speeds up to 28,800bps. Other system hardware includes two dual-processor Pentiums on a Novell network. Galacticomm's World Group software presents a sparkling image and a user-friendly interface.

System features from the Main Menu include Teleconference, Email, Forums, the Library of Files, Games, News, Weather and Sports, MatchMaker, Internet Access, and News Bulletins. Each of these menu choices will dump you into sub-menus with a range of choices to direct you to the specific feature you're looking for.

The Teleconference area allows you to chat with other connected users; not just those connected to this system, but users connected to literally hundreds of other BBS systems nationwide via Telnet. The Teleconference menu will direct you to local chat conferences or national channels. My experience on this BBS showed little interest in local chat, with the main focus on national communication. The nationwide chat still supported clever chat commands including message direction (addressing a specific user) and "whispering" to others (creating messages that only a specific user will see). With Teleconference you will greatly broaden your computer and life experience, exploring other parts of the country and their lifestyles.

Sending mail on this system can be an amazing experience. You may communicate by means of electronic mail with other local users or access email networks, with Usenet, FidoNet, MajorNet, and Internet services provided. The system is linked by satellite to the networked services for constant file transfer. You may want to download the QWK mail reader, which allows you to read and respond to mail off-line.

The Library of Files is a complete selection of programs and graphics at your disposal. Hotel California boasts over 66MB of downloads, ranging from the typical shareware files to adult-oriented graphic images. All files available for download have been virus-scanned to ensure your system's integrity. There are no download limits, so you can exercise your modem as much as you'd like.

Games for your online amusement include such favorites as TradeWars and Fazuul and go a step beyond ordinary BBS games with the Game Connection. Here, you'll be able to play exciting shoot-'em-up games against other connected users with such popular titles as Doom, Doom II, SpectreVR, and Heretic. If you are amazed by Doom and Heretic playing against your 486, wait until you try your hand against your online friends!

News, weather, and sports information is at your finger-

Resources

BULLETIN BOARDS cont.

Pathway BBS. (408)956-5600, (503)226-2665, (510)790-3127, (619)699-5750, (714)236-4247, (916)454-0947. 8-N-1, 1200–14,400. 16 lines. Get into the swing of things. Adults only. [Exp. #139.]

Prism BBS. (310)799-0380; (714)454-9242, 638-7249, 642-6256. 8-N-1, 24 hrs., 300–28,800. 32 lines. 4.5GB, Internet, MajorNet, TradeWars 2002, adult areas, social events. Instant access. [Exp. #140.]

213

The Artists' Gallery. (213)933-6183. 8-N-1, 2400–14,400. Casting notices, entertainment industry info and production opps., actors' pics/resumes. [Exp. #139.]

The Career Network BBS. (213)629-1472, 933-4999. 8-N-1, 5:30 pm–1:30 am, 2400/9600/14,400. Hundreds of JOBS! throughout the US; your resume can reach 200+ employers monthly. Sysop: Steven McCormick. [Exp. #139.]

CD-ROM BBS. (213)644-0391. 8-N-1, up to 28,800. Market research, CD news, Who? What? Where? Buy, sell, trade, used, new. [Exp. #138.]

Game Port BBS. (213)269-9793. Hardcore videos: Japanese, Chinese, amateur, new releases. VISA/MC. [Exp. #138.]

OPAMP Technical Books BBS. (213)957-6915. 24 hrs., up to 14,400. Online book catalog (chapter headings listed), 10,000+ titles and growing. Free. [Exp. #139.]

Pacific Online. (213)344-4444. 8-N-1, 24 hrs., 14,400. Four lines. Internet email, files, 5GB system, multiplayer games, more. Free/fee. Sysop: Steve Jackson. [Exp. #139.]

Scrapted Paint BBS #2. (213)463-4264. 8-N-1, 24 hrs., 14,400. Lesbian and bicurious, gay, heterosexual adult sections, latest software. Free/fee. [Exp. #140.]

SoulPartners' Computer Online Date. (213)223-3440. 8-N-1, 24 hrs., up to 14,400. Free online dates, men and women/gay/lesbian section, 18+. Free/fee. Sysop: Maggie Lok. [Exp. #139.]

310

CyberKnight's Castle. (310)355-0269. 24 hrs., 2400–28,800. Lots of doors, files, and play RPG games by email. Internet email. [Exp. #139.]

CyberKorea BBS. (310)926-1899. Korean files and info, Badook-go, forums, Internet email, Usenet, more. $15/yr. [Exp. #140.]

The Dark Crystal BBS. (310)522-9633. 8-N-1, 24 hrs., 14,400. Messages, doors, GIFs, shareware, CD-ROMs. Free/fee. Sysop: Akira. [Exp. #140.]

Dejavu BBS. (310)218-3561, 218-3562. 8-N-1, 24 hrs., 14,400. Asian board w/lots of games, files; cool message base, users. Free. [Exp. #138.]

The Edison BBS. (310)440-3825. 8-N-1, 22 hrs., 300–14,400. For inventors. $Join/try now!! Free. [Exp. #139.]

Fantasia Online Information Service. (310)986-9705. 8-N-1, 24 hrs., up to 28,800. The carpool lane on the information superhighway! Call today! Sysop: Brian Andrus. [Exp. #140.]

Frog King BBS. (310)923-3764. 8-N-1, 24 hrs., 2400–14,400. Social playground of intelligent adults; chat, email, libraries, pub areas. Free access levels. [Exp. #140.]

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BBS Spotlight cont.

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The MatchMaker will allow you to match your attributes with other local users. After you provide answers to questionnaires for personal information, you'll be able to review the responses from other users to the same questions. You may also investigate which other users closely match your interests and responses.

Internet access on Hotel California is complete: with Telnet, FTP, Archie, Gopher, Finger, IRC, and SLIP. The Internet is a world of its own. It amounts to a giant link of computer information providers. If you become an "Internet junkie," forget the rest of the BBS world. You could spend the rest of your lifetime trying to explore and familiarize yourself with this expanse of information. You're best off dabbling with a few aspects that interest you, the way that most folks "surf the Net." Online help is available to acquaint you with the various directions you can choose.

News bulletins keep you current on system upgrades and user group "meets," making regular perusal of this menu choice a necessity. User group meets will allow you to connect with others on the system in real life and match faces to those you've chatted with online.

Subscription fees are modest, with lower rates for longer terms of commitment—as low as $10.00 per month. Hotel California can be reached by calling (310)407-1300, and there are many local forwarding numbers available from all areas of the Southland to make your call local or almost so. Use the standard modem parameters of 8-N-1 to connect to this feature-packed BBS. And tell 'em *MicroTimes* sent you. ■

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Health Info Online. (310)831-6775. 8-N-1, 24 hrs., 1200–28,800. For healthcare professionals, caregivers, patients, people interested in health; files, more. Free/fee. Sysops: Tom and Susan Dorsey. [Exp. #139.]

Hooper's Hollow. (310)498-3325. 8-N-1, 2400–28,800. Windows and DOS shareware, Net mail, online games and chat. Free/fee. [Exp. #139.]

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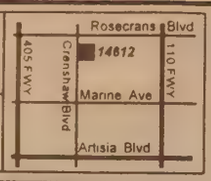

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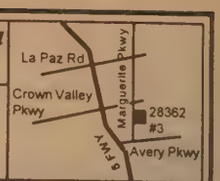

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KX-P2135 color.	$199.00
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Resources

BULLETIN BOARDS cont.

latest files, doors, games, fun. Echomail, 1:102/430 FidoNet/ RimeNet 5149. Sysop: Ronald Dishon. [Exp. #138.]

Mommadillo's BBS And Breakfast. (310)438-7830. 24 hrs., V.32bis. Games, files, good conversation for your online enjoyment from beautiful Belmont Shore. [Exp. #139.]

Moon Of Endor. (310)420-2033. 24 hrs., 14,400. The hottest games including VGA-Planets and L.O.R.D. Free access. [Exp. #139.]

Networx Online. (310)337-0756. 8-N-1, 24 hrs., 14,400. Listings for business, multilevel marketing, National Home Business Consultant Network, more. Sysop: Michael Jennings. [Exp. #140.]

One World. (310)372-0987. Ecology, gardening, health, alternative news, international network. Free. [Exp. #140.]

Original Apple Corps BBS. (310)454-4660. Apple II support. Sysop: Ed Molina. [Exp. #140.]

The Reef BBS. (310)547-1551. Message based, games, file transfers, great fun! Good users. Free! Sysop: GRTWHTSHRK. [Exp. #139.]

Servant Christian BBS. (310)371-2770, 371-3130, 371-0251. 14,400. A modem ministry for Mac and Windows. First Class. Administrator: Doug Wade. [Exp. #138.]

South Bay Apple Mac User Group BBS. (310)792-8083, 792-0264. 14,400. FirstClass. Administrator: Dr. Dave. [Exp. #138.]

The Spider's Web BBS. (310)416-9901. Games, Ham, recovery and 12-step areas, BikeNet, ecology, spirituality, science, more. Free. [Exp. #138.]

Wah-Fah? BBS. (310)694-3557, 694-0577. 8-N-1, 24 hrs., 28,800. Many games, three CD-ROMs, general/adult areas, messages, chat. Free basic access. Sysop: Tim Young [Exp. #139.]

WorldWorks Symposium BBS. (310)312-3370 or telnet worldworks.com . 28,800. Myth-busting information, conspiracy theories, how the world works. Free/fee. [Exp. #139.]

XchangeNet. (310)452-3374. 8-N-1, 300–9600. All classified ads, all free, a swap meet of everything and anything. Sysop: Rex Brains. [Exp. #139.]

408

Garlique Graphics Image Center. (408)847-0665. Home of famous Garlique Ladies. Free Internet for members; adult CDs. [Exp. #140.]

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Resources

BULLETIN BOARDS cont.

619

Infinities Bar And Grill BBS. (619)656-1258. 24 hrs. Science, programming, and SDCSA sysop support board. Free/fee. [Exp. #140.]

PD-SIG, The TBBS. (619)749-2741, 749-2589, 749-3432. 300–1200. Messages, games, software, email, support for IBM, Apple, Amiga, Atari, etc. Sysop: B.J. Nash. [Exp. #140.]

714

1% Homeseller BBS. (714)990-4802. 8-N-1, 24 hrs., 2400/14,400. Homes for sale in Southern California. Free. [Exp. #140.]

3 Systems In ONE. (714)776-3001, 969-9624. 300–28,800. 13 lines. Games, files, Majornet forums, email, Matchmaker. Sysop: Doug Campbell. [Exp. #138.]

The Abyss BBS. (714)373-1575. 8-N-1, 300–14,400. WWIVnet, FidoNet echos, free Internet email, messages, transfer section, games, more. Sysop: Byte. [Exp. #140.]

A Shopper's World. (714)651-1793. 8-N-1, 24 hrs., 28,800. Advertisements for computers/parts, gym equipment, houses, cars, amusement. Free! [Exp. #139.]

Budapest BBS. (714)895-4885. 8-N-1, 24 hrs., 14,400. News, ads, politics, history, language, travel, national networks, messages, trading, files. Sysop: Fred H. [Exp. #140.]

Business And Design Forum. (714)952-1164. 8-N-1, 24 hrs., 2400–14,400. Information, articles, databases, advertisements, graphics, commercial, industrial, residential. Mail-order art. Free. [Exp. #139.]

Careertek™. (714)835-5908. 8-N-1, 24 hrs., 28,800. Technical community human resource service. Over 3000 current career openings. Free/fee. [Exp. #140.]

Cyborg BBS. (714)453-8925. 2400–14,400. Specializing in Novell NetWare and Windows 3.1 and NT utilities, demos, and drivers. [Exp. #140.]

The Elektrik KaFfEe. (714)449-9159. 24 hrs., 2400–14,400. Multiplayer Doom, 500+ Doom files, Apogee, CD-ROM, chat, free downloads. Free trial. Sysop: Perry Crosbie. [Exp. #140.]

Exotico BBS. (714)453-9524. Adult games, stories, pictures, and an alias Internet email address. $25/year. Sysop: a female stripper. [Exp. #140.]

HHG BBS. (714)459-2536, 459-2537. 24 hrs. Games, files, and fun. RIME and Fido. Subscription for X-R files. [Exp. #139.]

Humpty Dumpty BBS. (714)651-8326. 8-N-1, 24 hrs., 2400–14,400. Text poems, interactive multimedia and digitized voice poems, poetics, more. Free.

The Irvine "X"Change BBS. (714)552-0589. 8-N-1, 24 hrs., 28,800. Games, GIFs, s/w files, three CDs. Free access, adult w/fee. Sysop: Richard Neilssien. [Exp. #138.]

The Louvre. (714)535-1758, 535-1689. 8-N-1, 24 hrs., 14,400. Games, files, CD-ROM, messages, chat, many adult GIFs. Ratios/fee for adult access. Sysop: Dr. Jest. [Exp. #139.]

The Midnight Hour. (714)779-6124. 8-N-1, 24 hrs., 2400–14,400. Family/adult areas, games, chat, large shareware library/adult GIFs. [Exp. #140.]

The Midnight Mission BBS. (714)848-6808. 8-N-1, 24 hrs., 2400–28,800. Four lines. Large game and XX-GIF file areas. Full access with call back. Sysop: Marty Strech. [Exp. #140.]

Mission Online. (714)258-0707. 24 hrs., 28,800. Multiline. Internet, RIP, CD library, forum for programmers and data processing professionals. Free. Sysop: Kurt Steffien. [Exp. #138.]

The Orange Archives BBS. (714)532-1937. 2400–28,800. Multiple lines. 12GB of DOS, Windows, games, adult files; instant validation. No fees. [Exp. #140.]

Red Light BBS. (714)288-0752. 24 hrs., 2400–28,800. Adult files, graphics, chat, 500 Fido message bases, user friendly. [Exp. #140.]

Runaway Zone BBS. (714)525-8743, 525-8744. 8-N-1, 24 hrs., 28,800. Classified ads, doors, MatchMaker, personals, etc. [Exp. #139.]

Shoot The Moon BBS. (714)995-1004. 8-N-1, 24 hrs., 2400–14,400. Mac, adult, CD-ROM, 13,000+ files. Always Free! [Exp. #139.]

Simply Real Estate BBS. (714)841-6941. 8-N-1, 24 hrs., 14,400. Real estate information and database of 400+ homes for sale in O.C. Free. Sysop: Dani Montoya. [Exp. #139.]

Yggdrasil. (714)826-0308. 8-N-1, 23 hrs., 300–28,800. Chainmail Link, specializing in fantasy. Genealogy section, family trees. Networks. [Exp. #139.]

805

The Launch Pad BBS. (805)734-3878. Up to 28,800. Three nodes. 40+ games, files, no upload/download ratio. Free trial. Sysop: Rick Olsen. [Exp. #139.]

The New Dork Sublime BBS. (805)823-1346. 300–14,400. NIRVANAnet SoCal hub. Underground like a wild potato. Don't die wondering... Free. Sysop: Biffnix. [Exp. #138.]

SCV PC Users Group BBS. (805)297-7993, 297-7994. 24 hrs., 2400–14,400. Files, Interlec email, Wildcat BBS. Free. [Exp. #140.]

818

Ace Station BBS. (818)891-0397. 24 hrs., 300–28,800. Chat, Internet, games, files, 500 CD-ROMs, New Windows interface, support. [Exp. #140.]

AEC-Online BBS. (818)360-7022, 360-3367. Windows shareware, AutoCAD utilities, 12 CDs, free Internet email, true Windows BBS. [Exp. #139.]

Asia America BBS. (818)284-4519. 8-N-1, 24 hrs. Focus on Asian culture and business. Mature users only. [Exp. #138.]

The Boat House BBS. (818)994-1627. 8-N-1, 24 hrs., 2400–14,400. Online files, door games, free pub-

ASSOCIATIONS

ACM—The First Society In Computing, Los Angeles Chapter. Meetings: 1st Wed., 7:00 pm dinner, 8:00 pm program, Ramada Hotel, Culver City. For dinner reservations, (310)831-0611 ext. 2702; for program information, (818)785-5056; for membership information, (310)377-6226. [Exp. #140.]

International Interactive Communication Society. Meetings: 2nd Mon. Virtual reality, multimedia, info highway issues, and more. Call: (310)313-5664. [Exp. #139.]

Society For Technical Communication, Orange County Chapter. Call: (714)863-7666. A nonprofit organization dedicated to providing educational programs and networking opportunities in technical communication. [Exp. #142.]

Software Council Of Southern California. Meetings: usually 4th Wed., 6:00 pm, Long Beach Marriot, Main Ballroom, 4700 Airport Plaza Dr.; also breakfasts and luncheons around SoCal. A nonprofit trade association of software development organizations and companies providing support and services to the local software industry. Call: Bill Manassero, (310)328-0043. [Exp. #138.]

The Software Toolsmiths. Meetings: last Sat., 10:00 am, Joslyn Center, 339 Sheldon St., El Segundo. Discussion and tutorials on programming, including C++, Forth, J, SmallTalk, algorithms, operating systems, and hardware. Neophytes welcome. Call: John LuValle, (818)797-8656 or email: luvalle@primenet .com; or Howard Rogers, (310)532-3342 (eves.). [Exp. #140.]

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BULLETIN BOARDS cont.

lic access, download on first call. Sysop: Mark Presley. [Exp. #140.]

Channel Korea. (818)240-4888. 24 hrs., 2400–14,400. Info. center, Korean forums/files, news, chat, specialized automotive info. Free trial. Sysop: Roger Kim. [Exp. #140.]

David's Amazing Internet Services. (818)997-7500. 24 hrs., up to 14,400. Your friendly Internet provider, now with Web pages and a faster connection. Sysop: David Dennis. [Exp. #139.]

Digital Warehouse. (818)735-0101. 24 hrs., 14,400. An all around great BBS, log on and see! Free (public access). [Exp. #138.]

The Galaxy-II BBS. (818)706-0130. Up to 28,800. Three lines. Support for PBM game Galaxy-II. L.O.R.D., Assassin, more. Free/fee. Sysop: Brett Tondreau. [Exp. #138.]

Ham*Info*Link*Source BBS. (818)584-1952. 8-N-1, 24 hrs., up to 14,400. Devoted to amateur radio, swl, dx, news. Free. Sysop: Joe, *kb6axk@netcom.com*. [Exp. #138.]

Insomniax. (818)348-6796. 8-N-1. 16 lines. Adult, major weirdness, cyber-sex, gothic, Internet, adult files, more. Sysop: Sienna. [Exp. #138.]

InvestorLink. (818)331-4611. Daily and historical stock, commodity, mutual fund data. Real estate, more. Sysop: Steve Painter. [Exp. #138.]

The Kinky Korner. (818)830-5259. 8-N-1, 24 hrs., 1200–14,400. Fido/adult networks, email files/reg. Games for all. Free/fee. Sysop: James Carrillo. [Exp. #139.]

KTB Internet Online. (818)240-4000. 8-N-1, 24 hrs., up to 14,400. Internet email, Usenet newsgroups, UUCP, UNIX/Windows/DOS/Internet files. Free trial. [Exp. #138.]

LA Free-Net. (818)776-5000. 8-N-1, 24 hrs., up to 14,400. 60 lines. Local boards, email, WWW, gopher, and more. $15/year. [Exp. #139.]

The Lair BBS. (818)286-5711. Games, shareware, conference, sign on free as full user. [Exp. #140.]

My Board BBS. (818)347-7711, 789-1776. Full Internet, interactive games, chat, MatchMaker, 3GB of files. Free trial. Sysop: Anne Kingsbury. [Exp. #140.]

Mysteria. (818)353-8891. 24 hrs., up to 28,800. General board featuring metaphysics and occult. FidoNet. Free access available. Sysop: Phil Hansford. [Exp. #139.]

The Night Line BBS. (818)284-8099. 8-N-1, 24 hrs., 2400–14,400. Games, files, messages, adult, programming, two CD-ROMs, technical support. Free. Sysop: Malasie. [Exp. #139.]

The SLATE BBS. (818)763-9172. 8-N-1, 24 hrs., 300–14,400. Sports, law, tons of everything, files, original games, and more. Free. Sysop: Rob Reed. [Exp. #139.]

Virtuoso OnLine. (818)543-0416. 8-N-1, 24 hrs., 300–14,400. TLAN and TFNet conferences, adult, Mac, PC, chat, thousands of files. Free. Sysop: Ivan Thomson. [Exp. #140.]

Wizardry BBS. (818)222-4444. 2400–14,400. Online games, downloads, uploads, adult GIF and text files. Free. [Exp. #139.]

Xtasy. (818)330-7596. 5+GB adult GIFs, AVIs; 3+GB shareware; fantasy sport leagues w/daily stats. [Exp. #138.]

909

The Berean University. (909)947-2278. 8-N-1, 24 hrs., 14,400. Large message base, logic/philosophy/technical, games, files, more! Free access. [Exp. #140.]

Data Connection. (909)698-7257. 8-N-1, 24 hrs., 28,800. Multiline. Internet, weather, USA Today, 12 CDs, adult. Fee. Sysop: Dennis Clark. [Exp. #139.]

The French Connection BBS. (909)428-7648. 24 hrs. Eight lines. California's largest adults-only BBS. View GIFs online in Windows. Sysop: Christopher A. Moss. [Exp. #138.]

Inland Sports BBS. (909)789-2978. 8-N-1, 24 hrs., 28,800. SoCal sports BBS and more! 67,000+ files, huge door selection, animated menus. [Exp. #139.]

The Library! BBS. (909)780-6365. GIFs, files, games, crafting, Wildnet™, ASP. Windows, DOS, OS/2 shareware. Free. Sysop: Kim Martin [Exp. #139.]

Sidewinder BBS. (909)352-1773. 24 hrs., 2400–14,400. Email, files, no fees. Sysop: Sundown. [Exp. #140.]

Spaceport Bastille BBS. (909)877-3923. 8-N-1, 24 hrs.. 1200–38,400. 1GB online: games, messages base, RPGs; Amiga, IBM, adult files. Free. Sysop: Capt. Worf. [Exp. #139.]

Spectrum Online Services. (909)396-9117. 24 hrs., 14,400. Chat, email, interactive games such as Doom and Business Advertising. Free limited access. [Exp. #140.]

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Resources

USER GROUPS

AMIGA

Amiga Users Group Of Long Beach. Meetings: 1st Thurs., 7:00 pm, Fire Station Bldg., 5373 E. Second St., Belmont Shores. All persons with an interest in the Amiga computer welcome. Free. [Exp. #143.]

ATUG—San Gabriel Valley. Meetings: last Tues., 7:00 pm, Michaelangelo's Pizza, San Dimas; 3rd Sat., 11:00 am, 1st Southern Baptist Church, Temple City. Call: Steve Ward, (818)285-6424. [Exp. #140.]

APPLE

Champions Of The Mac Proletariat (CHOMP). Meetings: 4th Thurs., 7:00 pm, Cal Poly Pomona, CLA Building, Rm. P2-7, Pomona. Question and answer, raffle of useful software, opportunity to purchase at discount. Call: Craig Richards, (909)985-7385 or Mitch Cohen, (909)598-5766. [Exp. #143.]

Orange Apple Computer Club. Meetings: 1st Sat., 8:00 am, Chemistry Bldg., Orange Coast College, 2701 Fairview Rd., Costa Mesa. Apple II and Mac users, various SIGs. Call: (714)770-1865, or S.W. Hosey (714)962-3893. [Exp. #142.]

Original Apple Corps. Meetings: 2nd Sun., West LA area. Apple II and Mac users group. Support for beginners through experts. Call: Fred Duffy, (310)450-3336. [Exp. #143.]

ATARI

ATESIG—Atari 8-Bit SIG. Meetings: 145 Surf Pl., Seal Beach. Cooperative user group for model railroad applications. Call: (310)430-5433. [Exp. #139.]

South Bay All Computer Enthusiasts. Meetings: 2nd Tues., 7:30 pm, VFW Hall, 1865 Lomita Blvd., Lomita (1 block W of Western). All skill levels. Call: Danny or Mary, (310)834-0040. [Exp. #143.]

CAD

Los Angeles AutoCAD User Group—LAAUG. Meetings: 4th Wed., 6:30 pm, Burbank Board of Realtor's, 2006 W. Magnolia Blvd., 2nd Floor, Burbank. Newsletter, BBS, tutorials, 3D SIG; $50/year or $10 at door. Call: Michael Berman, (818)762-9966. [Exp. #140.]

COMMODORE

CHLB—Commodore Helpers of Long Beach. Meetings: 2nd Sat., 9:00 am., Community Presbyterian Church, 6380 Orange Ave., Long Beach. Newsletter, large library, monthly disks. Call: Herb, (310)429-8998. [Exp. #143.]

San Fernando Valley Commodore 64/128 Users Group. Meetings: 1st Tues., 7:00 pm, Balboa Park Recreation Center, Rm. 2, Balboa and Burbank blvds., Encino. Call: Paul Kroll, (818)892-3859. [Exp. #142.]

South Bay Commodore Users Group. Meetings: 3rd Thurs, 7:00 pm, So. Cal. Edison Generating Station, 1100 Harbor Dr. (across from King Yacht Harbor), Redondo Beach. Call: Dorothy, (310)323-9265. [Exp. # 143.]

IBM & COMPATIBLES

Long Beach IBM PC And Compatibles Users Group. Meetings: 3rd Wed., 7:00 pm, Masonic Temple, 5155 E. Pacific Coast Hwy., Long Beach. Novice and experienced welcome, BBS, public domain library, newsletter, SIGs. $25/year, $35 for families. Call: Jim Wells, (213)439-7114. [Exp. #141.]

Los Angeles Computer Society. Meetings: 2nd Tues., 7:00 pm, Robert Frost Auditorium, Culver City High School, 4401 Elenda St., Culver City. Vendor presentations, free software, special interest groups, BBS. Call: (310)471-2726. [Exp. #143.]

Orange Coast IBM PC User Group. 1520 Brookhollow, Suite 38, Santa Ana. Speakers, BBS, software library, newsletter, and SIGs. Everyone welcome. Call: (714)662-2939. [Exp. #143.]

Orange County IBM PC Users Group. Meetings: 2nd Tues., 6:30 pm. Speakers, software, newsletter, BBS. Open to public, all welcome. Call: (714)990-0580. [Exp. #139.]

Pasadena IBM Users Group. Meetings: 3rd Wed., 7:00 pm, 2184 N. Lake Ave., Altadena. Speakers on hardware/software, demonstrations, SIGs, library, newsletter, and BBS. Call: Steve Bass, (818)791-1300. [Exp. #141.]

San Bernardino Personal Computer User Group. Meetings: 1st Wed., 6:30 pm, CSU, Jack Brown Bldg., Rm. 285, San Bernardino. All PC users are welcome to come share information and ideas. Call: Mary Kehew, (909)882-3653 or Dan Sheffield, (909)797-9112. [Exp. #141.]

SCV PC-Group. Meetings: 2nd Wed., 7:00 pm, Valencia Town Center Community Room. Call: (805)298-1680. [Exp. #140.]

South Bay All Computer Enthusiasts. Meetings: 2nd Tues., 7:30 pm, VFW Hall, 1865 Lomita Blvd., Lomita (1 block W of Western). All skill levels. Call: Danny or Mary, (310)834-0040. [Exp. #143.]

Southern California Computer Society. Meetings: 4th Tues., 7:00 pm, Farmers & Merchants Bank, 12535 Seal Beach Blvd., Los Alamitos. We welcome all who are interested in IBM and compatible computers; BBS and newsletter. $15/yr. Call: Hank Burwash, (310)596-9670. [Exp. #141.]

Thousand Oaks Personal Computer Club (TOPCC). Meetings: 4th Thurs., 6:30 pm, Goebel Senior Adult Center, 1385 E. Janss Rd., Thousand Oaks. Programs are targeted at novice to expert levels of computer kowledge. Call: (805)494-8675. [Exp. #143.]

Tug-Net. Meetings: 1st four Thurs. 7:00 pm, Glendale Federal Bank, 7119 Topanga Canyon Blvd., Canoga Park. Visitors free. Ample parking. Call: (818)249-1629 or 884-9441. [Exp. #139.]

Valley Computer Club. Meetings: 1st Wed., 7:00 pm, Burbank Board of Realtors Bldg., 2006 W. Magnolia, rear entrance, Burbank. BBS, PD library, SIGs, newsletter. All welcome. Fee, $4. Call: Estella McClintock, (818)848-1948 or Grayce Hruda, (818)842-3707. [Exp. #143.]

MACINTOSH

Champions Of The Mac Proletariat (CHOMP). Meetings: Thurs. monthly, 7:00 pm, Cal Poly Pomona, CLA Building, Rm. P2-7, Pomona. Call: Craig Richards (909)985-7385 or Mitch Cohen, (909)598-5766. [Exp. #143.]

Long Beach Chapter Of LAMG. Meetings: 1st Tues., 6:00 pm, Signal Hill Elementary School Auditorium, 2285 Walnut, Signal Hill. Presentations, Q&A, diverse group of new and experienced Macintosh users. Call: Roger Kroll, (310)433-9818. [Exp. #140.]

Orange Apple Computer Club. Meetings: 1st Sat., 8:00 am, Chemistry Bldg., Orange Coast College, 2701 Fairview Rd., Costa Mesa. Apple II and Mac users. Various SIGs. Call: (714)770-1865 or S.W. Hosey, (714)962-3893. [Exp. #142.]

Original Apple Corps. Meetings: 2nd Sun., West LA area. Apple II and Mac user group. Support for beginners through experts. Call: Fred Duffy, (310)450-3336. [Exp. #143.]

South Bay All Computer Enthusiasts. Meetings: 2nd Tues., 7:30 pm, VFW Hall, 1865 Lomita Blvd., Lomita (1 block W of Western). All skill levels. Call: Danny or Mary, (310)834-0040. [Exp. #143.]

South Bay Apple Mac User Group. Meetings: Last Wed., 8:00 pm, Knob Hill Community Center, 320 Knob Hill, Redondo Beach. Newsletter, PD library, demos, and raffles. Call: (310)644-3315. [Exp. #141.]

Southern California Macintosh Owners/Users Group (SMOG). Meetings: 2nd Sat., 10:00 am, Western Digital Bldg., off 405 Freeway at Irvine Center Dr., Irvine. Speakers, product demos, Q&A, PD disks. All skill levels. Call: Dani Maloy, (909)698-7737. [Exp. #139.]

MUSIC

Club Mid. Meetings: 1st Tues., 7:00 pm get acquainted, 7:30 pm meeting, 12282 Loraleen, Garden Grove. Discuss all aspects of MIDI, music, and computers. Call: Art, (714)539-3808. [Exp. #138.]

NETWORKING

OCNET—Orange County NetWare Users Group. Meetings: 2nd Tues. 6:30 pm and 4th Tues. 11:00 am, Novell, 18101 Von Karman, Suite 500, Irvine. Specializes in Novell NetWare solutions. Call: 1-800-532-7268. [Exp. #143.]

PARADOX

Orange Co. Chapter, LA Paradox User's Group (LAPALs). Meetings: 3rd Wed., 7:00 pm, Newport Beach Fire Dept., 475 32nd St., Newport Beach. Presentations, Q&A, etc. for Paradox (DOS/Windows) users and developers. Call: Glenn Jones, (310)490-2092. [Exp. #142.]

TANDY

San Gabriel Valley Tandy User's Group. Meetings: 2nd Fri., 7:00 pm, Arcadia Park Senior Citizen's Center, 405 S. Santa Anita Ave., Arcadia. Support for Tandy and IBM compatibles, BBS, newsletter, RAM session. Call: Jack Nock, (818)578-0411. [Exp. #140.]

UNIX

UUASC, The UNIX User's Association Of Southern California. Meetings: 2nd Mon., 7:00 pm. For all people using all flavors of UNIX; presentations, discussions. Call: Larry, (714)526-4347. [Exp. #142.]

WINDOWS

WINNERS—WINdows usERS. Meetings: 2nd Sat., 9:00 am, Orange Coast College Chemistry #214, 2701 Fairview, Costa Mesa. Great speakers, help for Windows and Windows applications. Beginners, experts welcomed. Call: (714)542-0468. [Exp. #143.]

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Laptops *continued from page 38*

Computer Of The Month:

Zenith's Z-NoteFlex

In the early days of portables, Zenith was the undisputed king of the mountain. Its machines were well designed and lasted. Today the company still puts out terrific products and its latest entry, the Z-NoteFlex, is no disappointment.

The Z-NoteFlex comes in a number of different configurations, but the basic package measures about 12" x 8.7" x 2". The unit weighs just over 5.5lbs. with battery. The entry-level model is powered by a 486SX running at 33MHz. The top of the line comes with a 486DX4 running at 100MHz. Memory capacity ranges from 4MB all the way up to 24MB. Hard drive sizes range from 200MB all the way up to 810MB. Many of the components can be upgraded by the end-user as the machine is built around a modular design.

A number of options are available for the video. The least expensive option is a monochrome display. Color displays come in either active or passive models. The screen sizes vary, depending upon which option you choose, but the largest displays measure 10.4" diagonally. You can, of course, connect a monitor of your choice to the unit. But Zenith offers another option with its Flexsite LCD stand ($199), which allows you to disconnect the display from the unit and place it on the stand. In this way, you can move back several feet from the display. This option is especially useful for presentations. The screen just slides off the unit after you move two tabs to the side. A cable connects the removed display back to the unit. Like all of the good machines coming out these days, the machine features local bus video for fast redrawing of the screen.

The keyboard is well designed and has a good feel. If you want to install your own keyboard, it is as simple as plugging it into the port on the back of the unit. While a trackball is built into the machine, located just below the keyboard, you can also install a mouse into either the keyboard port or the serial port.

Zenith has designed efficient power management into the system. A nickel metal hydride battery comes with the unit and additional batteries ($129) are available. A removable floppy drive comes in the computer. It slips out and can be replaced by a second battery pack. With two batteries, it is possible to run the computer, even with a color display, for up to six hours—enough to fly coast to coast. The system can be set up in a number of different ways to conserve battery power. One of the most efficient is to have the system keep your place when you close the lid. In this way, you will not have to power up again when you begin your next session with the machine.

Two PCMCIA slots are stacked on top of each other to offer the added option of accommodating a Type III card. PCMCIA cards are available for everything from modems to network interfaces. Hard drive cards make it especially easy to transfer material from one computer to another.

Zenith, like many of the top portable manufacturers, includes built-in 16-bit stereo audio. In addition to a standard speaker and built-in microphone, there are jacks for attaching an external microphone and headphones or speakers. Zenith offers a wide array of audio products that work with this computer so you can set up a multimedia system. While these accessories are beyond the scope of this review, Zenith has designed this system to expand into a full multimedia system and even offers a carrying case designed for the expanded system.

The units come with DOS, Windows for Workgroups, and the software to make the PCMCIA adapter work. In addition, there is online documentation. I like the wide range of accessories Zenith offers for this system. While prices vary from dealer to dealer, Zenith has designed this system to be fully competitive with less expensive systems on the market by lowering its prices in the last quarter. Additionally, it has put together a number of packages that include hardware and software. Finally, there is a full on-site warranty for the first year and an additional two years of quick turnaround service if you send the computer or component back for repair. ■

RESOURCES:

Z-NoteFlex, starting at $2232
Zenith Data Systems
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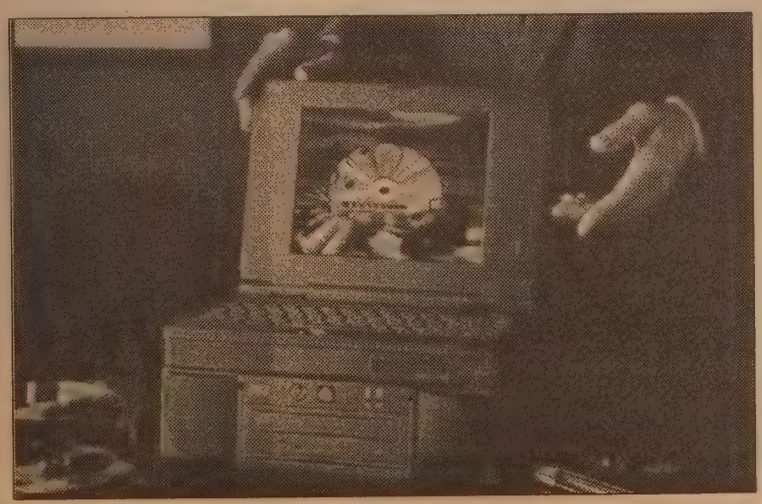
1-800-533-0331



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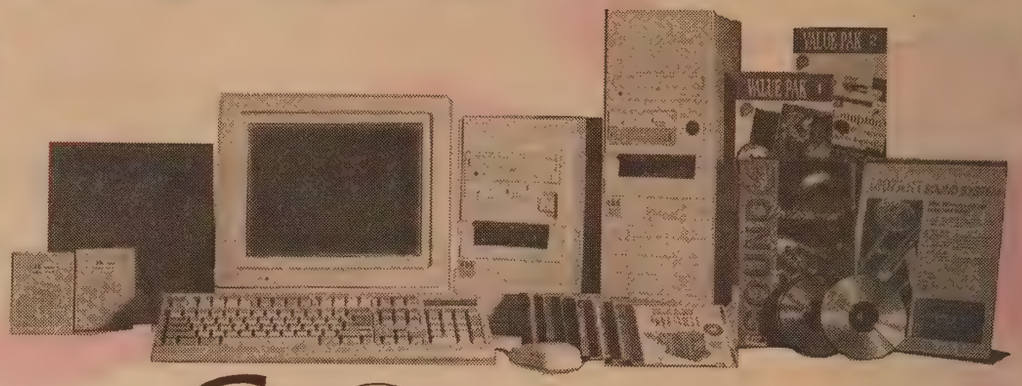

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- 101 Enhanced Keyboard, Hi-Res 3 Button Mouse
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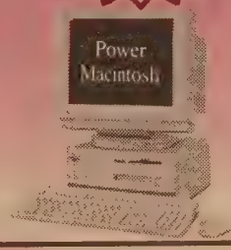

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PCI Adaptec-2940 SCSI-2	178
PCI Adaptec-2940W SCSI-3	255

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ViewSonic V15 15", 1280x1024 .28, 60Hz	388
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NEC XE17, 1024x768 .28, 76Hz, LR	998
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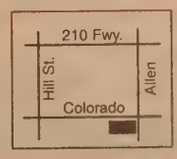

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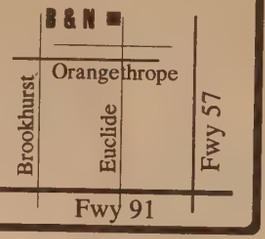

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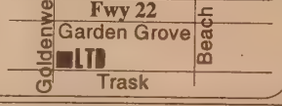

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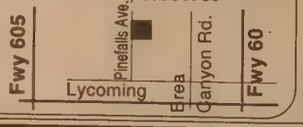

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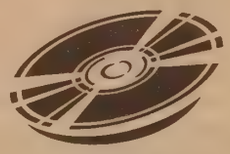

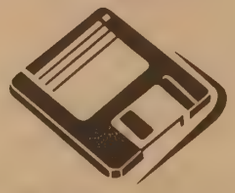

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Online Guide

Internet *continued from page 73*

to keep replies short and to the point, with only as much identified context as a reader needs to follow the conversation thread.

Some lists have thousands of members. Remember your reply is going to all the members of the list. Short, succinct messages are appreciated. Also, try to stick to the topic area of the list. When conversations wander off on unrelated threads, members of the list can get very annoyed. If it gets bad enough the owner of the list may start moderating messages sent to the list or remove abusive members.

Another list no-no is to send subscribe and unsubscribe requests to the list itself. Some special addresses have been set up to send these administrative messages to. In our example list, all administrative messages should be sent to *bar-request@foo.com* . The addressing convention is simply to follow the name of the list (before the @) with the string "request." This will work for all properly configured lists. Usually, using this mail address sends a message to the owner of the list. For example, a typical unsubscribe request to a list would be:

To: bar-request@foo.com
From: smoot@tic.com
Subject: unsubscribe me
unsubscribe bar

Majordomo

Many lists operate under control of the Majordomo list management system. A list under Majordomo control uses a little different administrative message strategy. Instead of sending a message to the list owner, you send a message to Majordomo in the domain the list is maintained. For our example list, the following would be a simple subscribe request:

To: majordomo@foo.com
From: smoot@tic.com
subscribe bar

Note that there is no Subject: line. Majordomo doesn't look at it. The subscribe message is in the body of the message. Majordomo handles administrative requests automatically. Its use is becoming more widespread, since it saves time for the list maintainer. Recent versions of Majordomo also support the -request convention. ■

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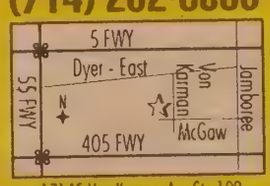

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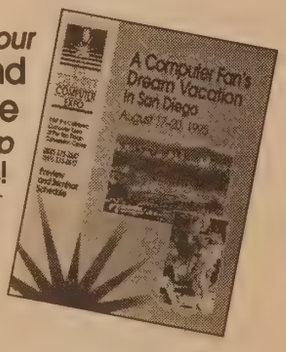

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MU-SPIN *continued from page 86*

that houses the training center will have to provide basic resources for a minimum of four other minority universities plus one elementary or secondary school." He realizes that these training centers will not completely eliminate the need for workshops, since some schools are not close enough to the regional centers to use them. "We know these training centers will not cover all our institutions," Bennett acknowledges, "so we are making plans to have a couple other workshops."

Since 1993, MU-SPIN members have had access to CPU time on a Cray C98 Supercomputer housed at Goddard. But access to the Cray is limited and requires special clearance—"We have to get down on bended knees and beg for use of it," jokes Harvey.

NASA relies on the Internet as its primary means of informing universities and colleges about the projects and grants it has in the works. Though NASA sends the same information through the mail, schools lacking Internet connectivity are last in line to receive it.

The begging will soon be over. According to Bennett, Morgan and NASA are putting up $250,000 each to purchase a Cray for MU-SPIN that will be permanently housed at Morgan. "That will evolve as part of Morgan's commitment to MU-SPIN," he said. "They have to build a summer computing facility for visiting faculty and students from minority universities. They'll host a summer workshop there every year. The computer will be owned by Morgan."

Harvey looks forward to the day when videoconferencing becomes another tool for MU-SPIN schools, but acknowledges that this kind of expensive project is not likely to happen in the near future. Her more immediate concern is not something that money can address. "People get grants when they've established track records. But if you've never had a grant, nobody takes you seriously. This is a gap that has not been satisfactorily bridged, in my opinion. Since that has to do with attitudes and perceptions, that will probably be more difficult than getting people on the Net. When you're talking about perception and attitude, you can't buy something to change that. It takes getting people to open up their minds."

The MU-SPIN project is working hard to open up minds. Bennett is encouraged by the progress the program has made. "MU-SPIN is doing tangible things, that's something that we really try hard to do. People are looking at us as a viable means to extend or enhance their research and educational efforts in the minority community. It's a chance to do something that needs to be done." ■

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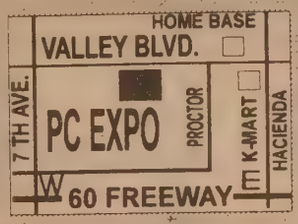

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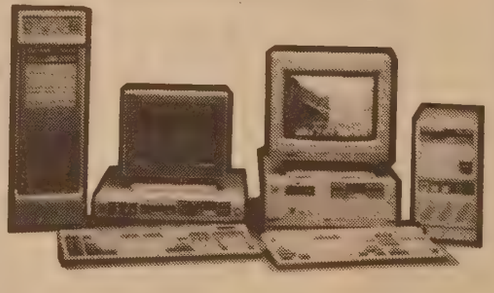

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Exactly. That's one of many very unpleasant scenarios.

So when you talk about information warfare, you're playing with a very dicey weapon.

On the other hand, having said that, Heidi and I are convinced that such weapons will be used by others and that, if only for defensive purposes, we ought to be studying this and be aware of the modes in which it operates.

In *War and Anti-War* we said that militaries would eventually develop knowledge strategies. In our definition therefore, information warfare goes all the way from knocking out the radar to "What is the education system of the country? What kind of R&D is the country doing?" All the soft things that go toward the creation of either security or offensive capability, as the case may be. Countries, I think, will begin to do that—they'll look at the relationship of their education, R&D, brain drains which can be either attracted or indeed reversed. They'll look at intelligence, of course, as all parts of the armamentarium of the infowarrior. That will create a very, very strange world, and in many ways a dangerous world.

Industrial espionage is an old and time-honored practice. Back in the early Industrial Revolution days, the Brits, not the government but an individual, went over to Leghorn in Italy, where they were using, for the time, a very advanced system for making silk fabrics. He literally drew the machines and created a duplicate in England. And in 1704 Peter the Great, I think it was, had spies sent to England to study the steam engine. So this has been going on for a long time, but nothing like what we now face.

My purpose at the conference is to broaden horizons as to the nature of the system the US is now operating in, and to make them think about information pressure points they might not have given a lot of thought to.

One of the possible extensions of what you're saying is that nation-states will cease to exist.

No, I don't agree with that. I think they will continue to exist—they may be big or they may be small; they may be decentralized; they may be federations; they may have other organizational forms. But I don't think they're necessarily going to disappear. On the other hand, they certainly *will* have a reduced salience in the system, because you have all these counterforces springing up around them.

We have to be realistic. Nationalism dies hard. People really feel this very deeply. Moreover, I think we should not be naive globalists. Not everything that is "global" is good. Witness the narco business, which is certainly global. Surely, we don't want to feed those paranoid conspiracy theories that some people in this country seem to harbor, that one world government is going to dominate the United States and the UN is going to take over. The UN can't find its way out of a paper bag.

But aside from that, I think that we want to maintain diverse cultures and national differences, and to have smaller and more manageable units that people can identify with, while at the same time having civilized relationships with the others on the planet. That's hard to do.

Personal computer technology in particular, and a lot of its associated technologies, have had the effect of giving individual people the kinds of tools that formerly only governments and other priesthoods had. These tools allowed them to do what they wanted, and do end-runs around all those hierarchical structures. I'm very much in favor of end-runs around hierarchical structures, but at the same time—that's what gives you Bosnias. That's what gives you Kevin Mitnicks.

Right. And gives you the potential for some things much worse than we've even imagined.

One of the things that all this is enabling is the formation of entities and constituencies and worlds, essentially, that are based on something other than geographical proximity. This makes the geographically based entities very nervous. One classic Second Wave-Third Wave conflict, to me, is the prosecution in Tennessee of a couple running an X-rated BBS in Milpitas because someone in Tennessee could download images that violated local community standards.

Right. It drives 'em crazy.

From what I can see, there's a very serious conflict brewing between law enforcement people, who think they should be able to regulate what you're doing online with somebody in Singapore (and conversely Singaporean authorities thinking they should be able to regulate it also), and the computer people who think that there is something radically different going on, a different entity called "cyberspace."

One of the things that's going on in Washington is that people like FBI Director Louie Freeh are trying to clamp down on the freedom of the online world in a pretty distinctly Second Wave fashion.

But give those guys their due. They face some real-world problems. They really do face some real problems.

I'm not saying they don't have some real problems. I'm saying I think that they're failing to come to grips with the fact that something radically different is going on here.

Yes, they're trying to deal with it using the old tools.

And the same thing is true of intellectual property. We're trying to grope with intellectual property as if it were a physical property of some kind, and that doesn't work very well.

So how do you civilize all that stuff?

I don't know. I think you do it through, on the one hand, a lot of creative ideas coming up, a lot of them being crushed and killed, and some of them surviving in a kind of Darwinian sense, and a lot of conflict. You don't get changes on this scale without conflict.

Those of us who feel some sense of responsibility want to keep that conflict from becoming bloody, to make it a civilized conflict, rather than just a source of violence, which it could easily become.

There are very serious questions. I would include, under America's informational exports, the movies. The violent crap that we're dumping

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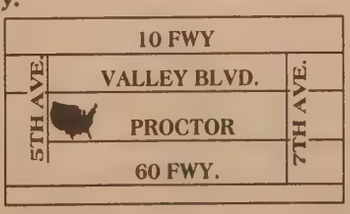

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on the rest of the world does not leave the rest of the world amused.

It's really complicated. You get the French saying, "Well, we've got to have French content." That's a protectionist game, you see right through that one. But what about the world of Islam, and not just Islam, that says, "We don't like your morals. We don't like what you're teaching our kids"? That's a legitimate position for them to hold.

Anybody who looks at American television and American movies with any kind of mature view recognizes that a lot of it is just plain sludge, and meretricious at that. It's not just the violence, it's the violence accompanied by the smirk and the joke.

And the shallowness.

And the shallowness of it all.

So the question then arises—do countries, or do communities, whether it's a country or not, have the right to try to control that? I don't think they *can*—certainly at this stage. There's no way that Lee Kuan Yew can.

They can't prevent the guy with the dish from downloading all kinds of stuff.

Exactly.

Now I believe that all systems, by definition, have limits. All systems have some limitations, and that goes for our libertarian views as well. There's no such thing as absolute liberty possible. That may be our ideal, but you're dealing with people, and conflicting interests.

I think we have to take a balanced view of it. America's great contribution, if anything, has been the First Amendment. That is one of the truly wonderful stunning things in history. We don't want to lose that.

But we have to understand that Louie Freeh has a problem. And so does the NSA, and so does the CIA, and so do all of these agencies. They have serious problems, and those problems are not just bureaucratic internal problems, they're problems for us as a people. The question is, how to accommodate both the need for maximum freedom of expression and the recognition that the next time it won't be a fertilizer bomb in Oklahoma City, it'll be something else, something potentially far more horrible.

I also think that we are moving to a kind of bar-coded world, in which for good or for ill, we'll tag the components of explosives. We may even bar-code people, in effect. And we already have these smart highways that make it possible for people to know exactly where you drove, at what time, and whether you were visiting your mistress when you were supposed to be at the office, and that sort of stuff. All of that is frightening. All of that is the Orwellian side of cyberspace.

But what Orwell didn't suspect was the interactivity. And the fact that there was a gigantic counterforce springing up to confront the state.

I don't expect any neat solutions for many years. Particularly when you get outside the frame of the American Constitution and you're dealing with China, or you're dealing with countries whose values and attitudes are totally different from our own, and maybe legitimately different from our own.

I think there's just going to be a tremendous amount of turbulence about all of this, and, because information is so important to the making of money, to the making of war, to policing, to having a stable society, the battles over information are going to get more and more intense, not less.

How do you see the have/have-not dichotomy?

Heidi and I used to go around and lecture about this twenty or thirty years ago. We talked about the potential for a helot society, and tried to offer an early warning about this potential division into info-rich and info-poor.

On the other hand, I'm somewhat more optimistic now, rather than less. Because I think several things are going to conduce to create what we call ubiquitization or universalization of a lot of this.

First, the costs of technology are going to come down much further. Now it's true, there's always going to be a government or a company that has more money than you or I have, and they'll always have access to something better. But the same dispersal of information power that is happening *vis à vis* the individual and the state is also happening *vis à vis* the individual and the corporation. Control from the top is harder, and the plummeting cost of communication is going to mean that a lot of people are going to have access to it who today do not.

The other positive thing is that it's actually in the self-interest of the corporations to have everybody in the system. It's not a question of corporate power trying to restrict the spread of the system. They have more people to send bills to. They have more people to advertise to. And so on. Nor is there uniform corporate power—they themselves have many different positions, many different needs and policies and competition and so on. It's not as though the corporate world wants to prevent poor people from having computers—I think quite the reverse is true—it is in their interest, both as creators of the technology and as users of the technology, to have it as universal as possible.

I believe that therefore it will be. The question then becomes whether it's relative or absolute. The criticism people made of Gingrich when he said that every poor kid should have a laptop—they said, "Ah yes, but it must be networked!"

Well, then, the next person says it has to have—

Real-time 3-D! Multimedia!

[*laughs*] Exactly! You keep raising the ante.

I think that this stuff is going to become so cheap, and is going to spread so far and fast—the universalization of it is going to get a big push from some of these giant media outfits, most of which I think are going to lose their shirts. But in the process they're going to sell a lot of computers and a lot of networking and bring more and more people into the system.

So in that sense info-rich and info-poor, in the narrow sense of computer access—I think that's going to work itself out, just as the telephone did. In the larger sense of education and the ability to earn a living and jobs, that's a tougher nut to crack. Because it is not in everybody's interest to spend their lives making jobs; it's in their interest to spend their lives making money.

And there, I think in order to even begin to think seriously about that problem, what we're going to have to do is burn our economics textbooks. Our economics textbooks are medieval. I have, next to my desk, a brand-new 1994 economics text for graduate students which still says the factors of production are land, labor, and capital. The world "knowledge" doesn't appear. If we're still publishing graduate economics texts that say that—I'm not in favor of book-burning, but I would send them to some storage bin somewhere.

Recycle This Book!

[*laughs*] Yeah, recycle this book!

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486DX2/50	8.4" Active	455MB	2298
486DX4/75	9.5" Dual Scan	455MB	2398
486DX4/75	8.4" Active	340MB	2648
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486DX2/50	4MB/20MB	9.5" Dual Scan	340MB	2348
486DX2/50	4MB/20MB	9.5" Active	250MB	2348
486DX2/50	4MB/20MB	9.5" Active	340MB	2548
486DX2/50	4MB/20MB	9.5" Active	540MB	2848
486DX4/75	4MB/20MB	9.5" Active	340MB	2748
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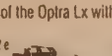

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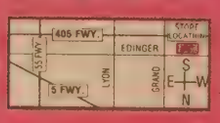

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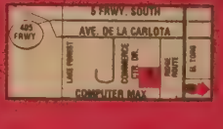

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and I'm sure you've heard us say, is that in a Second Wave economy, if you have a million people unemployed, you can stimulate the economy with Keynesian or other macroeconomic manipulations. You can create a million jobs, and you have solved your problem. In a Third Wave economy, you have a million people unemployed, you do the same thing, and you succeed in creating ten million jobs, but these people can't do those jobs. So the problem of unemployment has gone from quantitative to qualitative. It's a question of skill matching.

So that's why the Clinton administration says we need to have retraining. There's several problems with that; one is it overlooks acceleration. By the time you're trained, the skill requirements may be changed again. And secondly, it implies a much better forecasting capability than we have as to what skills will be required.

Indeed, we now know that it isn't just people without skills who are unemployed, it's tens of thousands of rocket scientists with the wrong skills. It's not a question of education or no education, training or no training; you've got to hit a moving target.

That says to me that we're going to be living with structural unemployment for a long time, and that that is going to include large numbers of educated middle-class people who will at least go through a few months of unemployment, and maybe, with luck, some retooling during that time, and maybe, with luck, be able to get back into it.

That will change the politics of unemployment. It's no longer just Those People down in the ghetto or the barrio or the poor part of town who are potential victims of unemployment, but it's us. I think that will force political attention to the problem, and hopefully we'll get some fresh ideas out of it.

My own view is there's no solution to the problem given the current definitions that economists use and the current accounting systems that companies have. That you can't solve the problem within the constraints of the current Second Wave notions of economics.

It's a garbage-in, garbage-out situation.

Yes. You have to know who is really productive in the economy.

And the definition of "productive" isn't what it once was.

Exactly. The economists' definitions of production are hopelessly anachronistic and very, very narrow. Because they start with "the only thing that matters is something that involves an exchange of money," basically.

But we now know that mothers raising kids, how they raise their kids, has a big impact on productivity in the economy.

So you have to redefine all the economic terminology, the categories that we have—what is efficiency, what is productivity? Forget GNP or GDP, and so on. This is going to require an intellectual revolution in economics. I think we're beginning to move in that direction. Nevertheless, governments are still listening to these Merlins, people with supposedly magical skill to manipulate.

One of the first lessons of the new economics, which is true in the old as well but has been radically ignored, is that you can do all the macroeconomic manipulation you want, but people don't live in the macroeconomy, they live in the microeconomy.

Take Latin America. Mexico, Brazil, Argentina, they're all patting themselves on the back for having licked inflation and for having begun to privatize and for having begun to carry out what is in effect the International Monetary Fund formula. And indeed, people are making money—until the Mexican peso collapsed, but leave that aside, even.

The fact is, if you talk to the cab drivers, they're not doing so terrifically. You talk to the ordinary people, they're not doing so terrifically. We've had that experience for many, many years.

One of the reasons for our misestimating what's happening in these places is we pay too much attention to the macroeconomy and not enough to the microeconomy. This is why a lot of investors got stuck in Mexico, and why they will get stuck in other countries, because they read the same *Wall Street Journal* articles, they read the same financial information, drawn from a set of Newtonian models, and they think that's an economy.

Heidi and I believe that if you want to understand an economy, you've got to understand culture. You've got to understand social institutions. You've got to understand politics. You've got to understand a lot of things other than how the money is flowing through the system.

So I think the next major intellectual revolution has to be in economics. That will make a great many people very unhappy.

What are the winners going to look like?

My hunch? They'll have short lives. [*laughs*] Just because everything is more ephemeral.

Like the computer business—the people who were the gods ten years ago are mostly gone.

Right. And I think that is, in fact, a consequence of acceleration. You live in an accelerated environment, that's the nature of the game.

I can't tell you what technology or what business is going to succeed, but I think it's important for people to understand that the Third Wave is not just happening in the United States, nor is it just happening in Singapore and Japan and these newly industrialized countries. Cells or little implantations of Third Wave technology and Third Wave people are popping up in the strangest parts of the world, from Brazil to Bangalore. We're buying software from India, and India is buying software from Vietnam.

On the one hand, complacence on the part of the United States and Japan and other countries is going to do them in. And on the other hand, the obsolete kind of third-worldism that we saw in the '70s and '80s, the south-against-the-north rhetoric, is going to hurt the poor countries, to the degree that they're still thinking along those lines.

I think we're going to see amazing technological breakthroughs, which I cannot forecast, popping up in the most amazing places.

What should the smart little country be doing right now?

I'm going to make a cynical statement. The smartest thing a small country can do is get rid of its peasants. That's exactly why Singapore is Singapore.

Singapore never had to deal with a First Wave population. When Malayia was broken up in the early '60s, Singapore may have felt that it was being cheated of population at the time. But the best thing that ever happened to it was it didn't have to deal with an impoverished First Wave peasantry.

I'm being cynical and being facetious about it, but the fact of the matter is that countries saddled with large First Wave peasant populations,especially if those peasants are uneducated, obviously have the worst drag on the system. Those countries that have an at least rea-

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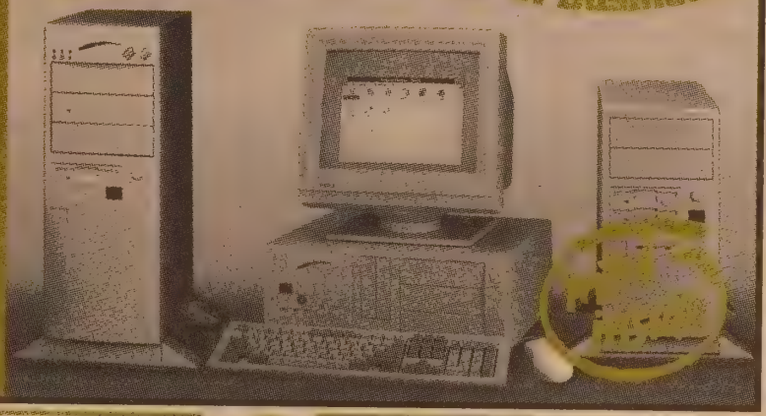

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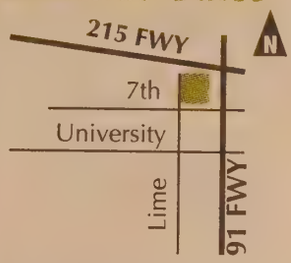

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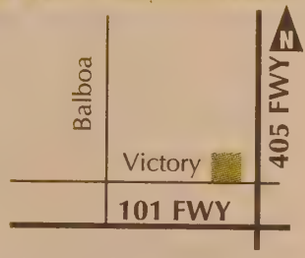

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sonably educated population have a better chance, if we still think in terms of countries.

What if we think in terms of Microsoft, which is bigger than countries? I'm just using that as an example, but you could say Apple, or Hewlett-Packard...

Well, let's say AT&T, because that's the case I know something about.

In 1965 we coined the concept "Future Shock," and talked about the need for long-range planning. As a response to that, in about 1968 we got a call from a very high official of AT&T, then headquartered on lower Broadway in Manhattan. I went in to see him, and he said, "I'd like you to come and do some work for AT&T." I said, "What?"

He said, "We've had the same corporate mission for over fifty years—put the same black telephone in every American home. We did it. Since the '50s we've been putting green phones and pink phones and white phones in. But now we've got these things called satellites and computers and stuff, and what should our mission be for the future?"

I said, "Why are you asking me? I don't know anything about the Bell systems and the telecommunications industry."

He said, "That's okay, spend three or four years studying this."

I said, "What's my mission?"

He offered the most platinum-plated consulting assignment I suppose anybody's ever got—he said, "Make a movie. Write a book. Give a report to the board. Write magazine articles. You decide!"

[*laughter*] What a deal! Especially if you're starving at the time, as we were, not yet having published *Future Shock*.

So while writing *Future Shock* we spent three or four years studying the Bell system, interviewing everybody from the chairman on down to engineers and employees. Went to Bell Labs and so on, and then in 1972 delivered a book-length report in six copies to the board of directors.

What it said was, "You're going to have to break up the Bell system."

How many years before Judge Green?

A little over ten years.

"You're going to have to break up the Bell system. But you don't have to break it up the way the government wanted you to"—because the government wanted to break them up ever since the late '40s. The government's position was, "We want to separate manufacturing from the rest. We want you to divest Western Electric. We believe Western Electric is charging you too much for the telephones it's making, giving you the opportunity to jack up your rate base when you go in for a negotiated increase."

This was why the government was after AT&T for all these years.

What we said was, "No, you have to break it up, but not that way. Here's your new mission. The old mission was universal service, all communications for anybody who needs it. Well, we now live in a world in which nobody can provide that. Your new mission should be only those communications services that nobody else can provide."

If you then applied that as a criterion to the company at that time, what you would have left—MCI was still a very small speck on the horizon, Sprint didn't exist—that meant you kept long lines, you kept Bell Labs, you kept the high-tech ends of Western Electric. Anybody could stamp out telephones—let somebody else do that.

We didn't have quite the guts to say, "Get rid of the operating companies," but we did say, "You don't need to own them 100%. Own them 20% or some other percentage, but there's no reason you have to completely own and operate the RBOCs. They'd operate better separately, and you could use that capital to do better things with."

And if you put the system back together again today as though it were a single company, it would be a $170 billion corporation.

That's my answer to Microsoft, or to any of the mega-mega giants, that at some point it's going to be more sensible to break up in some way, shape, or form. Maybe you form a corporation which is a kind of federation.

In the book we did based on our report to AT&T—called *The Adaptive Corporation*— we use the term "constellation." We said AT&T should run a university for its suppliers. AT&T should contract out everything it possibly could.

A good example at that time—we were just coming out of the 1968 riot in the ghettos, and you could not send an AT&T truck into the ghetto without the danger of somebody getting hurt. We said, "Why shouldn't installation be owned by a thousand small companies, including black-owned companies in the ghettos?"

So that was what we said in the report. The day we sent it in, a chill descended on our relationship with AT&T. [*laughs*] It was as though they had cut off our phone service. The check came in the mail, and that was it. No presentation to the board!

And in fact what happened was a wonderful story. They locked the six copies up, literally under lock and key, and even if you were the president of an RBOC you couldn't get to see it. I think maybe because they were afraid of Uncle Sam seeing it, although no one ever said that to me. So you couldn't lay your hands on a copy—except for one thing.

I had great admiration for the people there. They were very smart, very technically terrific, and believe it or not, they had a certain service ethic. They really did believe they were doing something for the country and it was really important. I had a lot of admiration for them, but I used to tease them mercilessly and say, "You guys are organized like a Soviet ministry."

And as in the Soviet Union, *samizdat* copies of our report began to circulate. [*laughter*]

And then one night three years later Heidi and I were in Florida, and I had to give a speech to the board of directors of the then Kraft Food Company. Who should be on the board, but John DeButts, who was the chairman of AT&T. As we walked in to dinner, he put his arm around Heidi and said, "That's a wonderful report."

We knew the Politburo had met and the party line had changed!

Relations warmed after that, and when the company was actually broken up, we asked permission of them to publish the report. They were kind enough to say "Go ahead," and so we published *The Adaptive Corporation*, which used that report with some updating material.

We thought "nobody will really be interested in this monograph," but this monograph has since been published in virtually every country in the world, every Ministry of Post and Telecommunications knows this book. It won the Golden Key award in China! [*laughs*]

So again, I'm not pointing this gun at Microsoft; I confess I don't know about the internal life of Microsoft; I haven't spent four years studying it. So I don't know. But just as a starting assumption, there's a point of scale and complexity at which an organization just becomes, as we all know, loggy and less creative and slower to react and so on.

If they can figure out a way to avoid that, more power to them. ■

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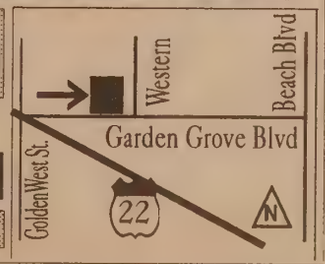

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Nothing To Hide?

continued from page 154

you a clue that it happened. What's more, they probably have the legal right to do so, too.

A simple rule of thumb: Take steps to protect any computer files or email messages containing private matters that you wouldn't discuss openly on your office telephone.

Here are some concrete reasons to fear today's electronic threats to your privacy:

• Item: There's a lucrative grey market in private bank records, credit card purchase records, unpublished phone numbers, and IRS files. One company has hooked up with Chase Manhattan bank to offer "Privacy Guard" protection at $49 per year. It doesn't actually protect very much of your privacy, but it does let you monitor the computerized records on you and your family, to some extent. At least you can more easily discover what others can learn about you.

One good way to get others interested in protecting their privacy, and thus yours, is to add an encrypted "signature" to every file you send.

• Item: No federal laws protect you from the typical invasions of your privacy now available to computerized criminals. In a bizarre twist the records of your videotape rentals have some of the strongest protections. Passed largely to protect Supreme Court nominee Robert Bork's habit of renting "adult" videos, the 1988 Video Privacy Protection Act makes your video-viewing preferences better protected than your bank account numbers or auto driving record.

• Item: One of the fastest-growing crimes is based on finding and stealing credit data. Computerized criminals search the Internet and its resources for satisfactory credit reports, then manipulate the files to get themselves credit cards, mortgages, and other cash benefits. Trans Union recently began citing as many as six thousand fraud complaints per month!

It's no wonder that a 1994 survey by Louis Harris and Associates found that more than 80% of Americans are concerned about their privacy—a much higher figure than similar Harris polls found in 1992 and 1978.

While disgruntled people are probably the most likely cause of "insider" infringements on your privacy, there are many other, unlicensed and less law-abiding people out there who are looking for kicks, interested in seeing how much trouble they can cause, testing their programming skills against "the system," or just reeling under the influence of a troubled mind.

These people—or those to whom they distribute such confidential information—forage for private information like wolves constantly test the herds in search of the weaker antelope and elk. Even if your messages don't contain trade secrets, insider financial information, or matters the law requires you to keep confidential, they could easily contain clues to the most intimate details of your private life, your political beliefs, or even just your vacation plans—a subject in which burglars tend to be very interested. And once the information gets away from you, there's no telling how far afield it can travel.

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Nothing To Hide? *continued...*

Most people have no idea all this is true. They live in blissful ignorance, and continue to send email without taking any steps toward privacy protection.

That's why it's not enough just to be sure in your own mind that maintaining privacy is a good thing. You've got to spread the word.

One good way to get others interested in protecting their privacy, and thus yours, is to add an encrypted "signature" to every file you send. It gives the message a distinctive look, and piques the interest of other people. Once they ask you, "What is that thing?" you can begin to talk about the advantages of privacy.

A simple rule of thumb:
Take steps to protect any computer files or email messages containing private matters that you wouldn't discuss openly on your office telephone.

Step Two: Technical Matters

In last month's article, we discussed the procedure for getting a copy of PGP, the de facto standard for file encryption both on the Internet and within standalone computers. (Briefly put, you do it by using Anonymous FTP to connect with *net-dist.mit.edu/pub/PGP*, and then download the README file to obtain more detailed instructions.)

Those who want more detailed guidance can buy the recently released book: *The Official PGP User's Guide*, by Philip R. Zimmerman (The MIT Press, Cambridge, MA, $14.95).

There's also Andre Bacard's *Computer Privacy Handbook* ($24.95, Peachpit Press, 1-800-283-9444). Complete with an introduction by Mitchell Kapor, cofounder of the Electronic Frontier Foundation, this book covers many of the practical steps one can take right now to protect one's privacy.

New Privacy Survey Under Way

A major financial services corporation has commissioned Literal Research to gather opinions about consumer privacy for transactions over the Internet.

Those of you who'd like to make your opinions a part of this survey can answer the questions directly on the World Wide Web. The location is *http://www.literal.net/research* . Here's a rundown of what you'll find:

Literal Research Internet Transactions

"Many efforts are currently underway to enable electronic commerce over the Internet. Most of these efforts will mimic the current banking models for cash, credit, debit, and checking. These payment vehicles will be used to purchase products and services electronically.

"Some consider transaction security and privacy essential to the successful implementation of electronic commerce. The goal of this survey is to identify consumer preferences as they relate to privacy for payment options over the Internet.

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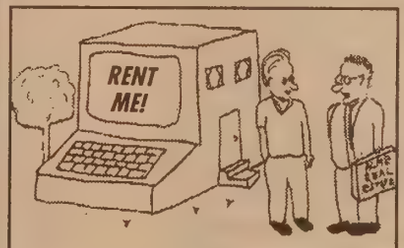

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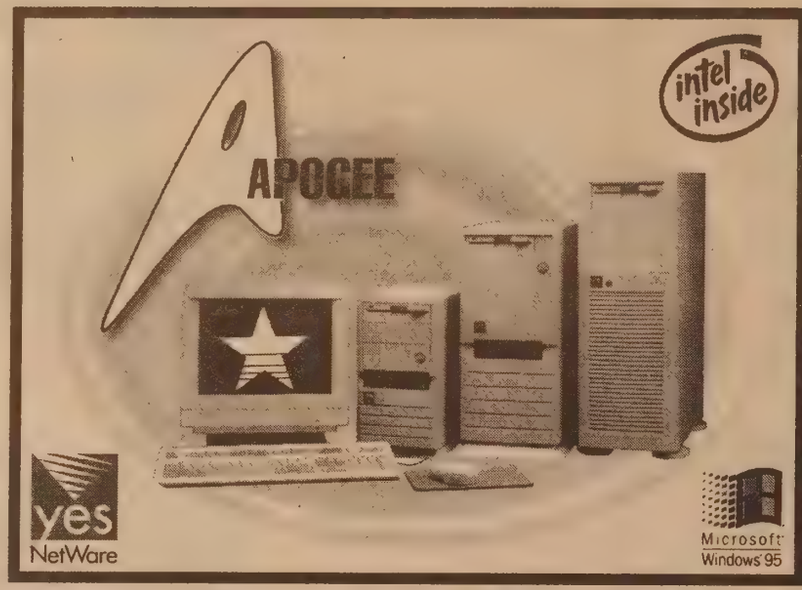

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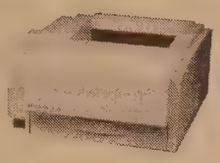

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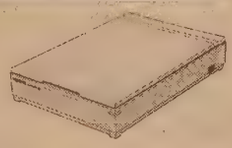

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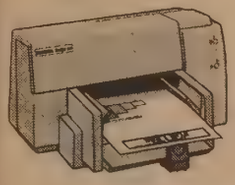

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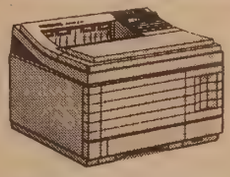

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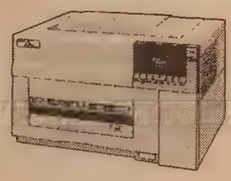

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"4. Would you use a credit card to make purchases over the Internet? (no opinion, often, sometimes, never)

"5. Would you use a debit card to make purchases over the Internet? (no opinion, often, sometimes, never)

"6. Would you use electronic cash to make purchases over the Internet? (no opinion, often, sometimes, never)

"7. Do you believe that encryption enhances the security of your transactions over the Internet? (no opinion, yes, possibly, no)

"8. Do you believe that encryption protects the privacy of your transactions over the Internet? (no opinion, yes, possibly, no)

"9. For each of the encrypted payment options below, rank order the factors that would influence your decision to use that payment option over the Internet:

- Encrypted credit cards (select each answer only once)
  - Size of the purchase
  - Stores prefer credit cards
  - Rewards for use of card
  - Can choose to delay bill payment
- Encrypted debit cards (select each answer only once)
  - Direct access to bank account
  - Stores prefer debit card
  - Convenient for small purchases
  - Gives a sense of control over finances
- Encrypted electronic cash (select each answer only once)
  - Bank cannot trace my purchases
  - Stores prefer electronic cash
  - Convenient for small purchases
  - Gives a sense of control over finances

"10. Check the following statements that you believe to be true:

I believe my credit or debit card company would disclose my purchase records without my consent.

I believe my credit or debit card company would disclose my purchase records to government authorities.

I believe my credit or debit card company would provide information about purchases to merchants.

I believe my credit or debit card statement would be seen by my spouse, family members, or employer.

I do not want my credit or debit card company to have any knowledge of my purchases."

Any Comments?

Mail your completed form to *info@literal.net*.

Literal Research says the information gathered will play an important role in shaping new products and services to be provided across the Internet. ■

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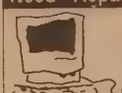

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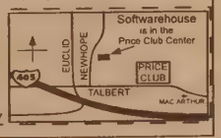

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MULTIMEDIA 101 *continued from page 162*

front of the others and the text on the CD-ROM was unjustified instead of justified as in the book. This makes it a lot easier to read off the screen. In general, the type was handled well, although the type on the pop-up navigational menu has a strange alternation between being sharp and fuzzy.

The CD-ROM ran a little slow and didn't seem to register mouse clicks as readily as it might. Perhaps I was attempting to whiz around faster than an authentic user would, but I quite frequently found both these factors annoying. Lastly, the video clips seemed to have a lot more pixel flickering than the current state of the art permits. Particularly when much of the video is shot for this specific purpose, I would expect better quality.

GET HAPPY!

I cannot resist returning to comment on the content. These sort of self-help and home-therapy products usually have a blind spot somewhere. While they offer a lot and will make you feel good by feeling like you're doing something, they also often duck a real crucial issue or two or, at least, obscure them. *Men Are From Mars, Women Are From Venus*, in either its book or CD-ROM version, is no exception.

In the CD-ROM version of *Men Are From Mars, Women Are From Venus*, Michael and Megan are respectively an attorney and apparently an advertising executive. Both are working far too hard and bringing their job-related stress home to wreak havoc on their domestic partner. Does John Gray suggest that perhaps both should simply cut back on their work commitments? Does he suggest that we live in an economic system that elevates material wealth over emotional well-being? Not that I could find in either book or CD-ROM! In this respect, using *Men Are From Mars, Women Are From Venus* is like putting a Band Aid over a festering, infected wound.

In both the CD-ROM and the book, the classic example of how each sex acts when arriving home from that stress-filled job is used. The man wants to go into his "cave" and chill out with the paper or the TV, while the woman wants to talk about her day, not to hear the man solve her problems but just to ventilate her feelings. Of course, the man, being a man, has a hard time not solving her problems, but the real difficulty here is that we're not told what to do when man and woman arrive home simultaneously with their differing needs.

Clearly, there is a basic conflict and the only solution is for one or the other to put their desires aside. What is needed is a sense of positive cooperation and collaboration between the two sexes. In general, this is also the case in other scenarios presented in the workshops—however, this is never made explicit. In my unscientific observation, by the time you get to the type of difficulties portrayed in *Men Are From Mars, Women Are From Venus*, rather than positive collaboration, you're dealing with balkiness and defensiveness if not outright offensiveness. There's a strong desire in both partners to protect a sense of self and the outcome is competition rather than cooperation. This is not a good background for weak implications being picked up on. The thorniest issue of all in relationships is what to do when your basic needs diverge, and once again I cannot find this addressed by Gray.

And perhaps that's the highest and hardest form of interactivity. ■

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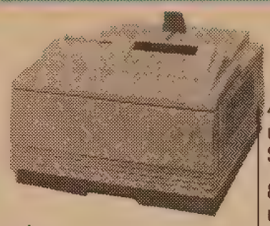

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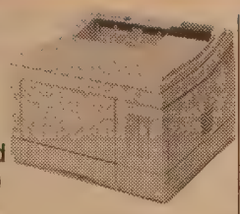

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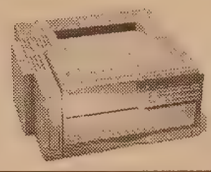

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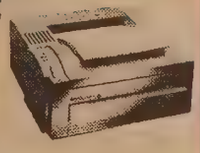

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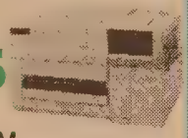

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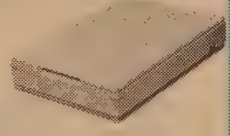

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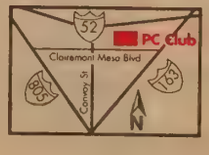

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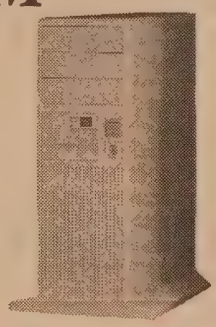

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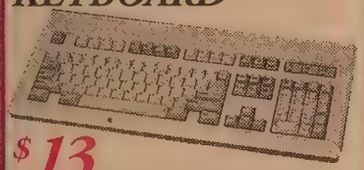

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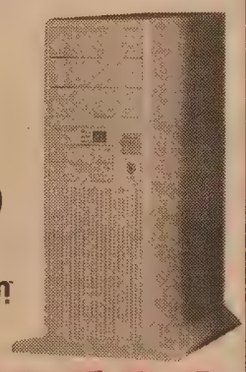

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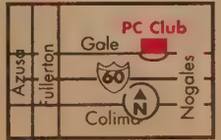

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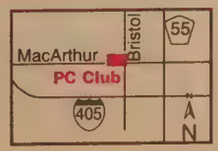

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Conner	540S SCSI	12ms	3.5"LP	$189

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Pentium Audiobook

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Pentium-75	$2749	$3749
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* RAM up to 20 MB (486)
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* PCMCIA Type 3 slot
* Built-in sound card, speaker and microphone
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* INTEL Pentium processor w/cooling fan
* 256K Cache
* 16 MB RAM expandable to 128 MB
* TEAC 1.44 MB floppy drive
* 1.26 GB IDE hard drive
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* Connect up to 4 hard drives
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* 2 serial, parallel, & game ports
* Enchanced 101 key keyboard
* Medium tower case w/230 Watt
* High resolution mouse
* Sound Blaster 16
* Quad-speed (4X) CD-ROM drive
* 160 Watt Hi-Fi speakers w/DSP

Best Buy
P-100 MHz $2849
P-90 MHz $2749
P-75 MHz $2649

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* INTEL Pentium processor w/cooling fan
* 256K Cache
* 8 MB RAM expandable to 128 MB
* TEAC 1.44 MB floppy drive
* 850 MB IDE hard drive
* PCI Enchanced IDE HD controller
* Connect up to 4 hard drives
* ATI Mach 64 or Stealth 64 w/1 MB DRAM
* Proton 15" 1280 X 1024 NI monitor .28 dp
* Flat screen, Digital control, Low-radiation
* 2 serial, parallel, & game ports
* Enchanced 101 key keyboard
* Medium tower case w/230 Watt
* High resolution mouse
* Sound Blaster 16
* Quad-speed (4X) CD-ROM drive
* 140 Watt Hi-Fi speakers

Special
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P-90 MHz $1899
P-75 MHz $1799

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* INTEL Pentium processor w/cooling fan
* 256K Cache
* 8 MB RAM expandable to 128 MB
* TEAC 1.44 MB floppy drive
* 540 MB IDE hard drive
* PCI Enchanced IDE HD controller
* Connect up to 4 hard drives
* PCI graphic accelerator w/1 MB
* PROTON 14" 1024 X 768 monitor .28 dp
* Non-Interlaced, energy saving
* 2 serial, parallel, & game ports
* Enchanced 101 key keyboard
* Medium tower case w/230 Watt
* High resolution mouse

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* 16 MB RAM expandable to 128 MB
* TEAC 1.44 MB floppy drive
* 850 MB IDE hard drive
* 32-bit IDE HD controller
* 32-bit graphic accelerator w/1 MB
* Proton 15" 1280 X 1024 NI monitor .28 dp
* Flat screen, Digital control, Low-radiation
* 2 serial, parallel, & game ports
* Enchanced 101 key keyboard
* Medium tower case w/230 Watt
* High resolution mouse
* Sound Blaster 16
* Quad-speed (4X) CD-ROM drive
* 140 Watt Hi-Fi stereo speakers

Best Buy
DX4-100 MHz $1789
DX2-80 MHz $1769
DX2-66 MHz $1749

486 MULTIMEDIA

* INTEL pentium-overdrive ready
* CPU cooling fan
* 256K Cache
* 8 MB RAM expandable to 128 MB
* TEAC 1.44 MB floppy drive
* 540 MB IDE hard drive
* 32-bit IDE HD controller
* 32-bit graphic accelerator w/1 MB
* Proton 14" 1024 X 768 monitor .28 dp
* Non-Interlaced, energy saving
* 2 serial, parallel, & game ports
* Enchanced 101 key keyboard
* Medium tower case w/230 Watt
* High resolution mouse
* Sound Blaster 16
* Double-speed (2X) CD-ROM drive
* 40 Watt Hi-Fi stereo speakers

DX4-100 MHz $1319
DX2-80 MHz $1299
DX2-66 MHz $1279

486 VL-BUS WORKSTATION

* INTEL pentium-overdrive ready
* CPU cooling fan
* 256K Cache
* 8 MB RAM expandable to 128 MB
* TEAC 1.44 MB floppy drive
* 540 MB IDE hard drive
* 32-bit IDE HD controller
* 32-bit graphic accelerator w/1 MB
* Proton 14" 1024 X 768 monitor .28 dp
* Non-Interlaced, energy saving
* 2 serial, parallel, & game ports
* Enchanced 101 key keyboard
* Mini tower case w/230 Watt
* High resolution mouse

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Junk Or History?

Time Will Tell

I was complaining on my syndicated radio show, *Software/Hardtalk* (Wednesday 10 am, KALW in the Bay Area—yes, a plug-ola) about how my Mom tossed out my old comic books which included an original copy of the rare *Panic* magazine—an early *MAD* magazine clone done by the same publisher, EC. This was during a conversation with a guy who produces a database management system that is designed to catalog all the world's greatest comics.

Since I don't collect comics it seemed like an appropriate thing to discuss: throwing away what is perceived as junk. Everyone does it. People have become millionaires finding old oil paintings that other people tossed away or gave to someone who could not care less about owning an oil painting.

Well, many of our closets are filled with oddball computer gear and we have to make the hard decision: exactly what we ought to do with these old dogs.

One Man's Junk

Last week I was at a garage sale, and someone was selling an old TI Silentwriter for $5, and I wondered if I should buy it as a collectible.

Like I need stuff like this!

Well, some people will collect the Silentwriter, and someday it may be worth a quarter of a million dollars, for all I know. And I have to admit I have collected a few items, and believe many old machines will be worth something more than they are now, if only as a donation to the local technology museum (every city will have one—you watch!).

The top machine to collect is the old Apple I, which isn't really a computer, but a card and a bunch of parts that the buyer was required to solder together and then probably regretted the experience. It's worth about $2000 or more already.

The early days of microcomputerdom produced many interesting machines and tons of weird subsystems. I expect that, like antique autos, many of these things will never be seen again, and will be only vaguely remembered by old-timers who will say, "Yeah, yeah! I remember *that*!"

The Good, The Bad, The Weird

We now have a last-ditch opportunity to grab one or more of the old machines for our collection. Ideally it should be in working condition.

My top pick to click is the old SOL-20 computer (circa 1977), a machine that should have knocked Apple off the block except for one or two things. One: It wasn't in color. Two: The company closed down!

The best add-on for the SOL-20 was a Northstar 5 1/4" floppy. Northstar was the first company to use the 5 1/4" floppy for a small computer. The thing required hard-sectored diskettes that had ten holes in them. The storage capacity of a Northstar disk was 70K. A double-density controller released a few years later provided a whopping 140K!

The real collector's item, though, to go along with a SOL-20, is an old Helios 8" floppy add-on. I don't know if any of these dogs ever worked; they had a horrible reputation. If you can't get a SOL, then look for the famous Exidy Sorcerer (circa 1978). It was SOL compatible. A clone market that never took off.

Many old-timers think that the old Altairs (the original personal computer) and IMSAIs (the original clone) are high on the collectibility list. They were really card cages with a microprocessor (an 8080) and an old-fashioned front panel. You had to toggle switches to get it to boot. Both are very collectible.

I'd recommend looking for some of the oddball machines of those days. The Digital Group computers (the original not-invented-here, "we do it our way," then subsequently broke micro firm), the Equinox with its octal front panel in a world of hexadecimal, and, above all, the Sphere. The Sphere was highly promoted; with its 6800 microprocessor it started a fad of dead-end 6800 machines. Even Altair made a short-lived 6800 machine. The 6800 machines were such duds that it allowed Motorola to design the 68000 without worrying about backward compatibility—something Intel wishes it did.

Nobody should overlook a vintage Osborne 1, an Apple III, a John Deere (if anyone has one, *Call Me*—we need to talk), the old IMSAI VDP-80 and VDP-40s, the IBM 5100 (the world's slowest BASIC computer also ran APL from ROM), a Polymorphic (preferably with the three floppy drives), a Southwest Technical Products Computer, the original Heath machines, or any other pre-1980 machine. Also look for an old Jupiter. The company made so few of these that they shipped them to reviewers wire-wrapped and unsoldered. One gullible reviewer thought this was the greatest thing he'd ever seen because of the "space age" wire-wrapped connections. No kidding!

When I reminisce about old clunkers I always recall the peculiar Byte-8—a machine made by the Byte Computer stores. Known for its mediocre power supply, the machine sold poorly and was only on the market for six months or so. I think it's an ultimate collectible. Some years later Computerland did a branded machine. I had a review copy of a Computerland machine and they demanded I return it even when I offered to buy it. It must be a heckuva collectible.

I've written about collecting old machines like this for years and there is always one machine I fail to mention: the original IBM PC. I now believe it may become the most collectible of all. Put yours someplace where Mom won't get to it!! ■

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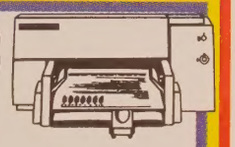

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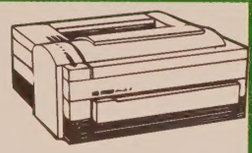

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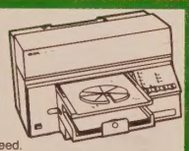

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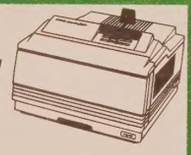

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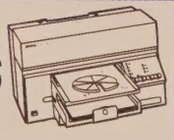

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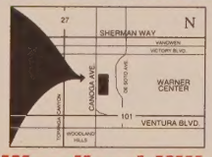

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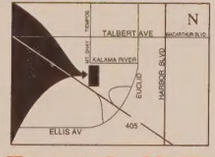

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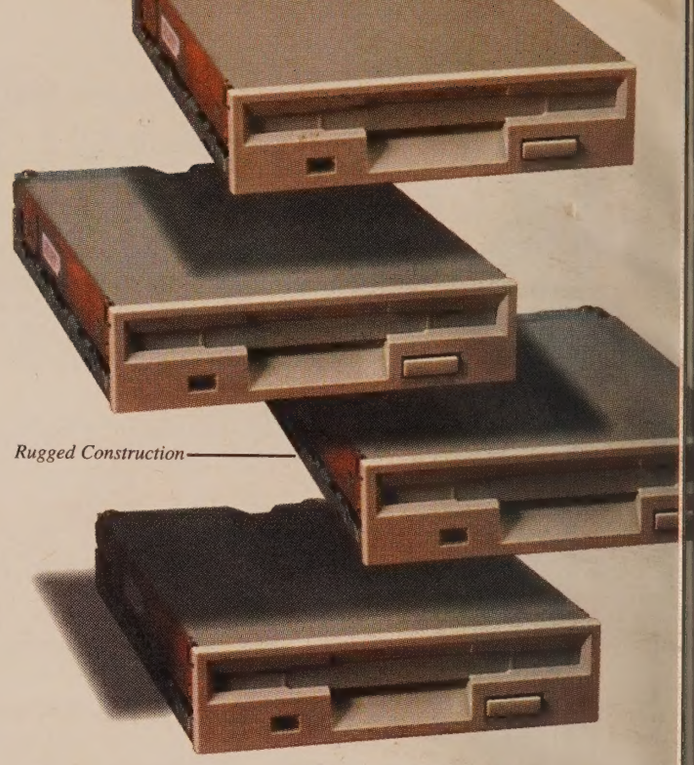

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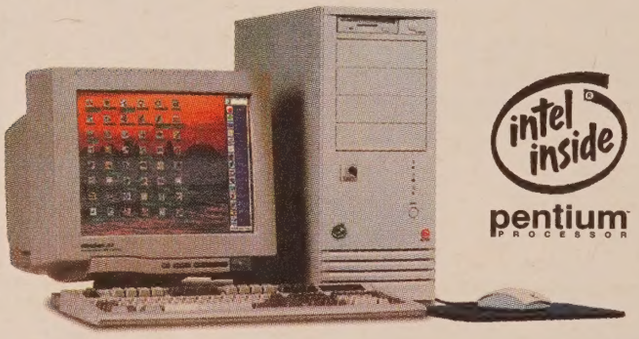

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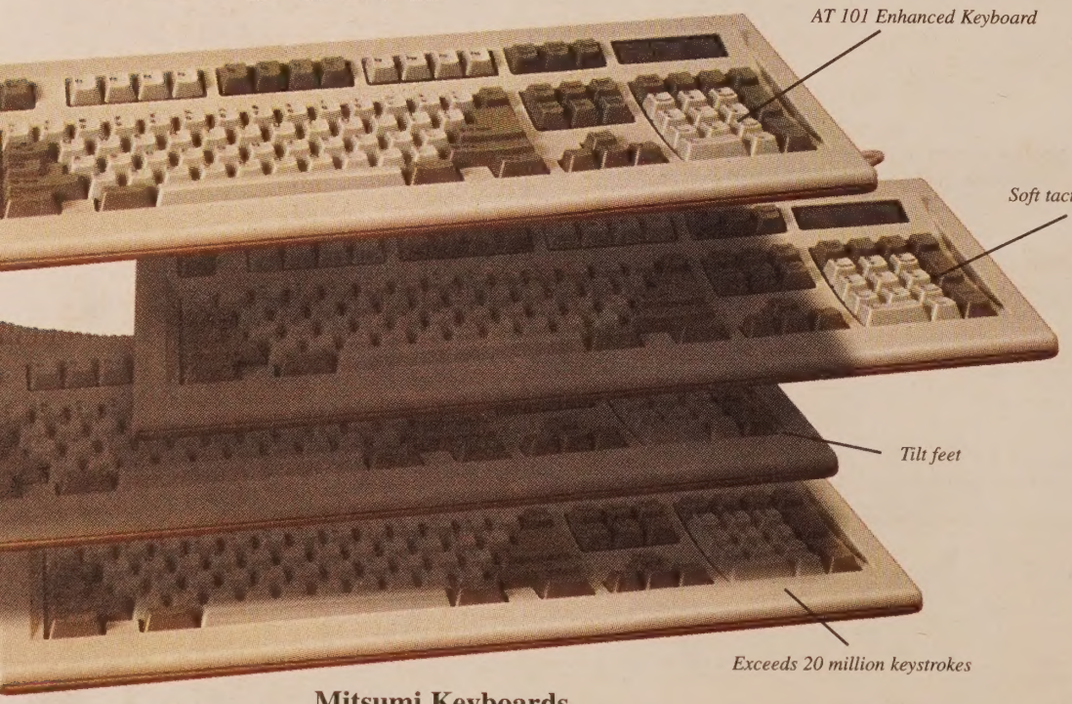

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